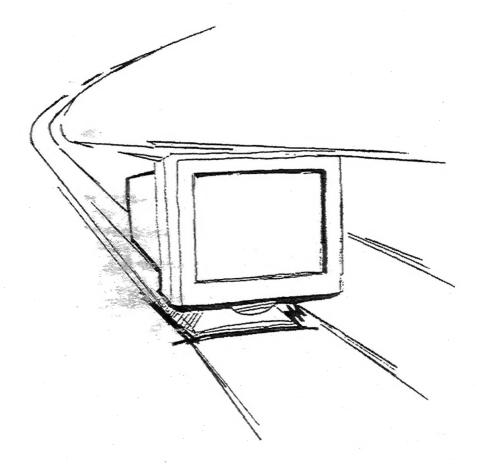
# 1769E/SE.1792E/SE

# SERVICE MANUAL

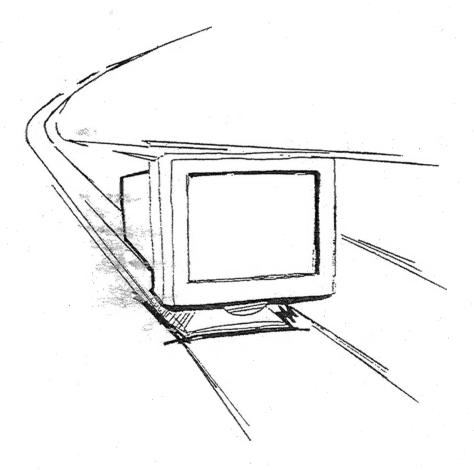
716 0



The Monitor Specialists

# SERVICE MANUAL

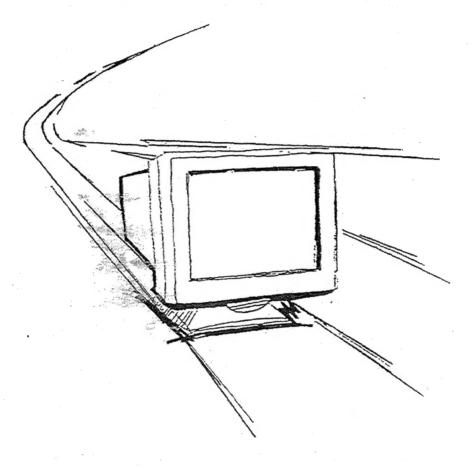
# 1792E/SE



CTX The Monitor Specialists

# SERVICE MANUAL

1769E/SE.



CTX

The Monitor Specialists

EDITION 1 Jul. 1997 Copyright © 1997 by Chuntex Electronic Co., Ltd.

The CTX SERVICE MANUAL is published by Chuntex Electronic Co., Ltd.

All rights reserved. No part of this manual may be used, copied, reproduced, or transmitted in any form or by any means for any purpose without the express written permission of the publisher.

The publisher has been trying its best to make this publication perfect, and in this manner takes no responsibility for the use of any of the materials or methods described in this manual, or for the products thereof. Neither will the publisher be responsible for any damages caused by misuse or misquotation.

Information in this manual is subject to change by the publisher without any notice in advance.

CTX is a registered trademark of Chuntex Electronic Co., Ltd.

# CONTENTS

1.0 IMPORTANT NOTICE & INTRODUCTION	1
2.0 GENERAL MAINTENANCE PROCEDURE	2
3.0 FUNCTION BLOCK DIAGRAM	3
4.0 DESCRIPTION OF CIRCUIT	4
5.0 TIMING MODE (CTX PRESETTING TIMING)	5
6.0 ADJUSTMENT	8
6.1 1769E/SE.1792E/SE ADJUSTMENT	8
7.0 TROUBLESHOOTING	10
7.1 MAIN TROUBLESHOOTING ROUTINE	10
7.2 POWER SUPPLY CIRCUIT TROUBLESHOOTING ROUTINE	
7.3 MICON CIRCUIT TROUBLESHOOTING ROUTINE	14
7.4 VIDEO CIRCUIT TROUBLESHOOTING ROUTINE	18
7.5 DEFLECTION CIRCUIT TROUBLESHOOTING ROUTINE	23
7.5.1 Horizontal Deflection Circuit	23
No Raster	23
H-Asynchronous	24
Linearity	25
Out of phase	26
Width Abnormal	26
7.5.2 Vertical Deflection Circuit	
No vertical scan	
Side pin distortion	
V-Asynchronous	
Vertical position	
Vertical Size	
8.0 IC CONFIGURATION	37
9.0 PARTS LIST	39
10.0 LAYOUT FOR MAIN COMPONENTS AND ADJUSTED	61
11.0 CIRCUIT DIAGRAM	61
42.0 EVDLOLED VIEW	61

# 1.0 IMPORTANT NOTICE & INTRODUCTION

#### IMPORTANT NOTICE

Please read before attempting service

- 1. While the monitor is in operation, do not attempt to connect or disconnect any wires.
- 2. Make sure the power cord is disconnected before replacing any parts in the monitor.
- When the power is on, do not attempt to short any portion of the circuit. This shorting may cause damage to the transistors in the monitor.
- When servicing the H.V. area, be certain that the C.R.T anode is safely discharged before removing the anode cap.
- Caution must exercised when servicing this monitor.

#### INTRODUCTION

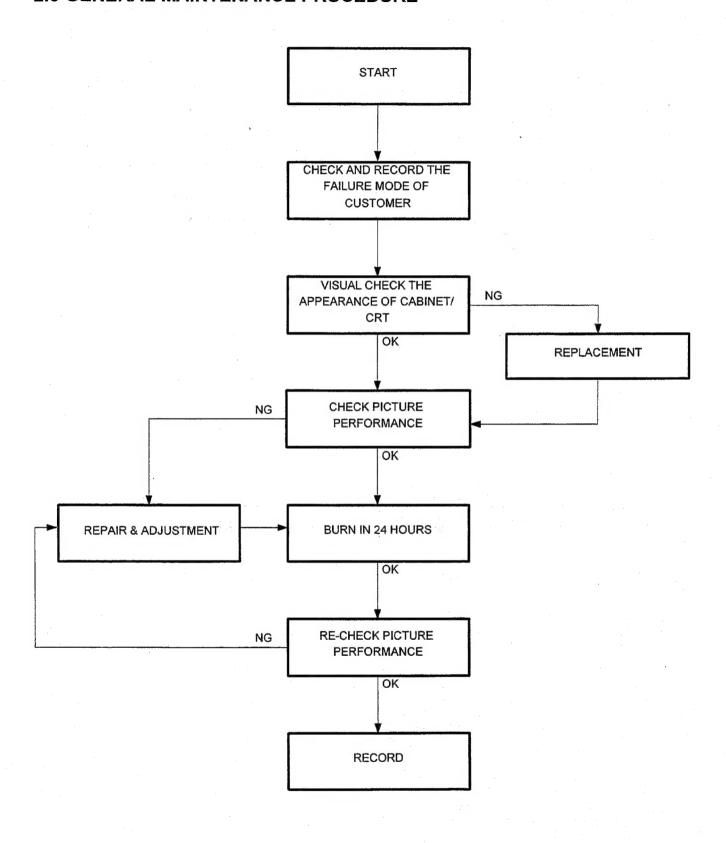
Enhanced repair capabilities

This troubleshooting guide is edited for model 1769E/SE.1792E/SE when service is necessary. there are four primary parts included in this troubleshooting guide which offer the easiest way to locate problem points and repair the machine to the best possible condition.

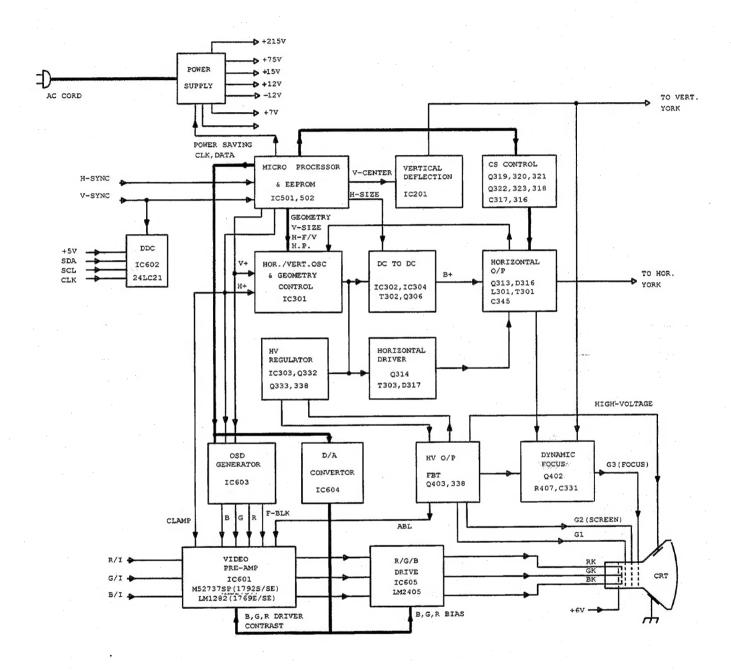
- The Adjustment section offers the adjustable method, steps and all data of the factory's initial settings which can make the machine get the best performance at that time. By the way, before adjusting, the machine must be warmed up for at least 10 minutes and the CRT face must be in an east ward direction.
- 2. The Troubleshooting section has four main parts including: power supply, micon circuit, CRT, deflection & video circuit. Each offers fast repair routine and the IC, transistor voltage records against all specified signal modes. These voltage readings are measured with a HP 34401A multimeter with input impedance 10MΩ (0.1V~1000V range) and waveforms shown on circuit schematics are measured by a Tektronix TDS 520 digital oscilloscope, the monitor receives VGA-480 full white square pattern.

- The CRT contrast list offers repairmen / technicians the contrast data when CRT replacement is necessary from a different type of CRT.
- 4. The Spare parts list offers the CTX part number (P/N) which is used frequently by repairmen / technicians. For details please refer to the service guide or service manual. If there is any engineering change regarding this model, CTX will issue the updated information by a non-periodical Technical Bulletin.
- The transistor voltage records are measured from LEFT side to RIGHT side when face to the front (printed side) of transistor.

# 2.0 GENERAL MAINTENANCE PROCEDURE



# 3.0 FUNCTION BLOCK DIAGRAM



#### 4.0 DESCRIPTION OF CIRCUIT

#### 1. Power supply circuit

The power supply is a serial & universal AC input switching power supply. The start up circuit (Q101, C105) will provide a DC voltage for PWM (Pulse Width Modulation) IC (IC101) when power on. When IC101 works normal, Q101 will be cut off by the DC voltage from T101 secondary winding. The IC101 will Auto-detect output voltage of power supply from Pin2 and correct the duty cycle of Pin6 output pulse to compensate the variation of output voltage.

The output of IC101 Pin6 connected to power mosfet to drive the power transformer T101. When power mosfet is on, the energy stored in the primary winding of T101. Once mosfet is off, the energy transfer to the secondary and charges the output capacitor to get the stable DC voltage.

#### 2. Oscillation circuit

The functions V-size, V-center, Side-pin, Parallel ....are designed inside into IC301. The Pin26 of IC301 is H-sync input, Pin25 is H-phase control, Pin13 is square wave output and connected to horizontal output stage & H.V output stage. The Q420, Q421 are X-RAY protect input. When H.V. output circuit is abnormal (H.V. too high) the X-RAY protect circuit will shut off the horizontal output, H.V. also will be shut down. The Pin27 is vertical sync input, Pin9 is vertical sync output connected to IC201 (Amplifier), Pin2 of IC201 is vertical amplifier output drives the vertical deflection directly.

#### 3. Horizontal output circuit

The DC-DC is to generate a DC voltage (B<sup>+</sup>) for horizontal output circuit. The IC302 and IC304 are control the H-SIZE, the output of IC304 connected to gate of Q306 to make the Q306 switching. When Q319 is ON, the energy stored in L303 and the energy released when Q306 turned OFF. The B<sup>+</sup> applied to H-DY through T302 primary winding to make horizontal deflection.

#### 4. Micon circuit

The function of MICON is to provide the interface between user, PC and monitor. The CPU will detect polarity and frequency of input H.V. Sync.. The CPU will determine

the mode of input timing (preset or users mode) and load mode data from IC502 to IC501. The output of CPU were connected to other function circuit (ie. H-phase, G2, Rotation, H-F/V .....). Also, the user can adjust picture from key board and the data will be saved into IC502 automatically. For the O.S.D. mode, when O.S.D. manual is active CPU will inform the O.S.D IC (IC603) to send O.S.D BLK signal to blank the video signal from VGA card, and the O.S.D. IC will send O.S.D. R.G.B. Video signal the consist the O.S.D. manual. The IC604 is D/A converter, Pin12, 13, 14 of IC604 and Q620. Q621, Q624, Q625, Q622, Q623 are R.G.B. BIAS control. The IC605 is R.G.B.

#### 5. H.V. regulation circuit

The PWM control IC3843 is kernel of the circuit. The 3843 will detect the output of H-O/P and then change the duty of Pin6. When Q338 is on, the energy stored in the secondary of power transformer. energy will be released and to get the B+ when Q338 turned off. So, the input duty cycle of Q338 gate is higher, the output B+ is higher. The H.V adjustment circuit consist of Q338, Q403, C407, C402 and H.V regulation CIRCUIT(Q338, Q332,Q333, IC303) which control the H.V output level. The duty cycle of Q338 gate directly control output voltage of C407. The C407 is a supply capacitor which supply the energy to primary winding of FBT and Q335 switch repeatedly to transfer the energy to FBT secondary winding.

#### 6. Video output circuit

Video circuit consists of video preamplifier IC601 and output cascode amplifier with IC605, IC601 is a video processing IC equipped with three DC amplifiers to preamplify R.G.B. signals from 0.6V to 3V. The voltage gain of these amplifiers are all DC controlled from IC501.

The R.G.B. GAIN & BIAS control signal are from IC604 to IC603, so simple voltage drive with resistors and timmers can be used to adjust the voltage GAIN and BIAS of each R.G.B. signal's amplification and thus achieve a well balance white picture.

The O.S.D. R.G.B.(Pin1, 2, 3 of IC601) is to control picture of O.S.D. window. The IC605 is R.G.B. driver to capable of driving CRT.

1769E/SE.1792E/SE 5.0 TIMING MODE

# **5.0 TIMING MODE (CTX presetting Timing)**

NAME	720X4	400-70	640X	480-60	640X	480-85	640X4	80-120	800X	600-85
PIXEL CLOCK	28.32	2 MHz	25.2	KHz	36.00	0 MHz	54.89	0 MHz	56.25	0 MHz
Fh	31.46	9 KHz	31.46	9 KHz	43.26	9 KHz	63.53	0 KHz	53.67	4 KHz
Fv	30.08	37 Hz	59.940 Hz		85.008 Hz		119.868 Hz		85.061 Hz	
INTERLACE MODE	N	0	N	0	NO		NO		NO	
VIDEO	ANALOG	-COLOR	ANALOG	COLOR	ANALO	COLOR	ANALOG	COLOR	ANALO	COLOR
XS SYNC ON GREEN	N	0	N	10	N	10	N	10	١	10
VIDEO LEVEL	700	)mv	700	)mv	70	0mv	714	4mv	71	4mv
WHITE LEVEL	714	łmv	700	Omv	70	0mv	700	Omv	70	0mv
BLANK LEVEL	01	RE	01	RE	0	RE	01	0 IRE		RE
16 BIT HEX DATA	00	00	00	000	00	000	00	0000		000
UNIT OF DATA	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms
H TOTAL	900	31.77 us	800	31.746 us	832	23.111 us	864	15.741 us	1048	18.631 us
H DISPLAY	720	25.422 us	640	25.397 us	640	17.778 us	640	11.660 us	800	14.22 us
H B-PORCH	54	1.907 us	48	1.905 us	112	3.111 us	95	3.731 us	152	2.702 us
H-S-WIDTH	108	3.813 us	96	3.810 us	48	1.333 us	96	1.749 us	64	1.138 us
H BORDER	0	0.000 us	0	0.000 us	0	0.000 us	0	0.000 us	0	0.000 us
H SIZE	4.00	0mm	4.00	0mm	4.00	0mm	4.00	0mm	4.000mm	
V TOTAL	449	14.268 ms	525	16.667 ms	509	11.764 ms	530	8.343 ms	631	11.756 ms
V DISPLAY	400	12.711 ms	480	15.238 ms	480	11.093 ms	480	7.555 ms	600	11.179 ms
V B-PORCH	35	1.112 ms	33	1.048 ms	25	0.578 ms	36	0.567 ms	27	0.503 ms
V S WIDTH	2	0.064 ms	2	0.063 ms	3	0.069 ms	6	0.094 ms	3	0.056 ms
V BORDER	0	0.000 ms	0	0.000 ms	0	0.00ms	0	0.000 ms	0	0.000 ms
V SIZE	3.00	0mm	3.00	0mm	3.00	0mm	3.00	0mm	3.00	0mm
н ѕ оитрит	ON	1(-)	ON(-)		OI	V(-)	10	V(-)	01	<b>1</b> (+)
V S OUTPUT	01	l(+)	O	<b>V</b> (-)	OI	V(-)	. 01	V(-)	OI	<b>1</b> (+)
X S OUTPUT	01	<b>V</b> (-)	01	<b>N</b> (-)	OI	V(-)	ON(+)		O	<b>V</b> (+)
X S SELETE	ŀ	1	I	1		H	I	Н		н
MODEL		E/SE E/SE		E/SE E/SE		E/SE E/SE		E/SE E/SE		E/SE E/SE

	,							
NAME	800X600-100		1280X	1024-60	1024X	768-85	1024X768-85	
PIXEL CLOCK	67.39	7 MHz	108	108 <b>MH</b> z		0 MHz	94.50	0 MHz
Fh	63.88	3 KHz	63.89	63.891 KHz		68.677 KHz		7 KHz
Fv	99.973 Hz		60.0	20 Hz	84.997 Hz		84.997 Hz	
INTERLACE MODE	N	0	N	Ю	N	10	N	10
VIDEO	ANALOG	-COLOR	ANALOG	COLOR	ANALOG	COLOR	ANALOG	COLOR
XS SYNC ON GREEN	N	0	N	Ю	.N	10	N	10
VIDEO LEVEL	700	)mv	714	4mv	714	4mv	700	Omv
WHITE LEVEL	700	)mv	700	Omv	700	Omv	700	Omv
BLANK LEVEL	01	RE	01	RE	01	RE	01	RE
16 BIT HEX DATA	00	00	00	000	00	000	00	000
UNIT OF DATA	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms
H TOTAL	1055	15.654 us	1688	15.630 us	1376	14.561 us	1376	14.561 us
H DISPLAY	800	11.870 us	1280	11.852 us	1024	10.836 us	1024	10.836 us
H B-PORCH	135	2.003 us	248	2.296 us	208	2.201 us	208	2.20 us
H-S-WIDTH	80	1.187 us	112	1.037 us	96	1.016 us	96	1.016 us
H BORDER	0	0.000 us	0	0.000 us	0	0.000 us	0	0.000 us
H SIZE	4.00	0mm	4.000mm		4.000mm		4.000mm	
V TOTAL	639	10.003 ms	525	16.661 ms	808	11.765 ms	808	11.765 ms
V DISPLAY	600	9.392 ms	480	16.005 ms	768	11.183 ms	768	11.183 ms
V B-PORCH	32	0.501 ms	33	0.594 ms	36	0.524 ms	36	0.524 ms
V S WIDTH	4	0.063 ms	2	0.047 ms	3	0.044 ms	3	0.044 ms
V BORDER	0	0.000 ms	8	0.000 ms	0	0.000 ms	0	0.000 ms
V SIZE	3.00	0mm	3.00	00mm	3.00	0mm	3.00	0mm
H S OUTPUT	Of	<b>1</b> (-)	O	<b>V</b> (+)	01	1(+)	01	<b>1</b> (+)
V S OUTPUT	O	<b>1</b> (-)	Ol	N(+)	01	<b>V</b> (+)	O	V(+)
X S OUTPUT	Of	<b>V</b> (-)	Ol	V(+)	ON(+)		ON(+)	
X S SELETE	1	-1		Н	Н		н	
MODEL	1769	E/SE	1792	ZE/SE	17	92E	1769	E/SE

NAME	1280X1	024-60	800X6	00-120	1024X7	68-100	1280X1	1280X1024-85	
PIXEL CLOCK	108	MHz	81.000 MHz		110.000 KHz		157.50	0 MHz	
Fh	63.98	KHz	75.98	75.985 KHz		80.468 KHz		91.146 KHz	
Fv	60.02	0 Hz	120	Hz	99.83	6 Hz	85.02	24 Hz	
INTERLACE MODE	N	0	N	0	N	0	, N	0	
VIDEO	ANALOG	-COLOR	ANALOG	COLOR	ANALOG	COLOR	ANALOG	COLOR	
XS SYNC ON GREEN	N	0	N	0	N	0	N	0	
VIDEO LEVEL	700	mv	700	)mv	700	mv	700	)mv	
WHITE LEVEL	700	)mv	700	)mv	700	mv	700	)mv	
BLANK LEVEL	0 1	RE	10	RE	0 1	RE	01	RE	
16 BIT HEX DATA	00	00	00	00	00	00	00	00	
UNIT OF DATA	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms	PIXEL	us/ms	
H TOTAL	1688	15.630 us	1066	13.160 us	1367	12.427 us	1728	0.971	
H DISPLAY	1280	11.852 us	796	9.827 us	1024	9.309 us	1280	8.127	
H B-PORCH	248	2.296 us	158	1.951 us	214	1.945 us	240	1.524	
H-S-WIDTH	112	1.037 us	87	1.074 us	118	1.073 us	160	1.016	
H BORDER	0	0.000 us	0	0.000 us	0	0.000 us	0	0.000	
H SIZE	4.00	0mm	4.00	0mm	4.000mm		4.000mm		
V TOTAL	1066	16.661 ms	633	8.331 ms	806	10.016 ms	1072	11.76	
V DISPLAY	1024	16.005 ms	600	7.896 ms	769	9.55 ms	1024	11.235	
V B-PORCH	38	0.594 ms	29	0.382 ms	34	0.433 ms	44	0.483	
V S WIDTH	3	0.047 ms	3	0.039 ms	3	0.037 ms	3	0.033	
V BORDER	0	0.000 ms	0	0.000 ms	0	0.000 ms	0	0.000	
V SIZE	3.00	0mm	3.00	)0mm	3.00	0mm	3.00	00mm	
H S OUTPUT	OI	N(+)	0	N(-)	. 0	N(-)	OI	V(+)	
V S OUTPUT	OI	V(+)	0	N(-)	0	N(-)	OI	N(+)	
X S OUTPUT	OI	N(+)	0	N(-)	ON(-)		OI	N(+)	
X S SELETE		H		Н	Н		Н		
MODEL	176	9E/SE	179	2E/SE	179:	ZE/SE	179	2E/SE	

## **6.0 ADJUSTMENT**

## 6.1 1769E/SE.1792E/SE ADJUSTMENT

**REM:PRESET MODE DATA ADJUSTMENT:** 

A. Turn off it.

B. Insert service port or press the  $\oplus$  and  $\bigcirc$  at same time which on the external control panel.

C. Turn on it.

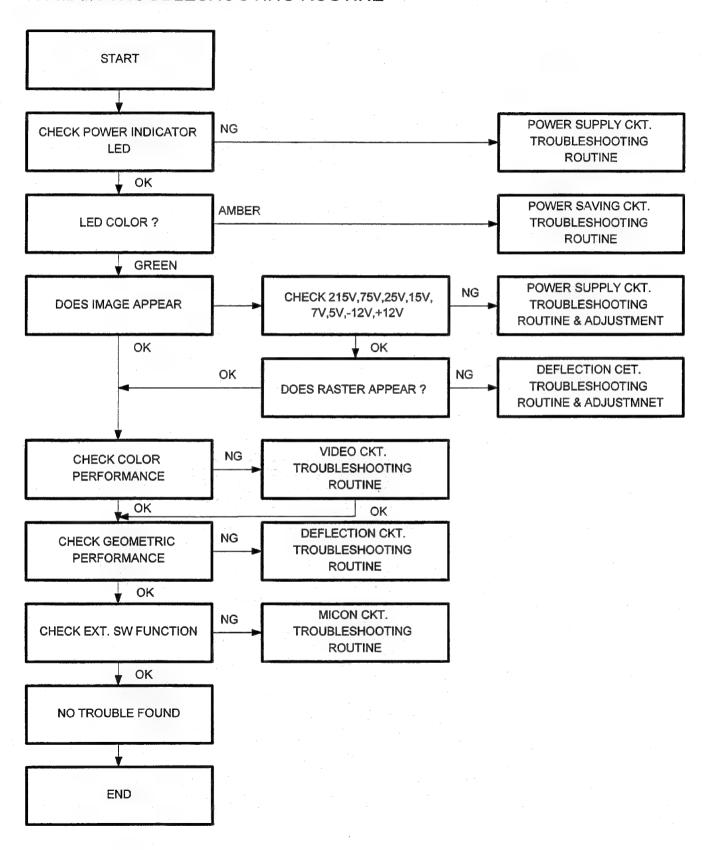
Remark: Before adjusting, monitor must warm up 10 minutes and CRT must be degaussed.

ADJUSTMENT	LOCATION	SPECIFICATION/DESCRIPTION	TIMING & PATTERN
215V	VR101	J127=215V ± 0.5V	VGA-480
12V	VR102	J144=12V ± 0.2V	н
H.V.	VR403	CRT ANODE=26KV ± 0.5KV	33
H-HOLD	VR302	Picture stand or flow slowly when TP301 shorted to GND.	3)
FOCUS	OCUS FOCUS VR1 & VR2 ON FBT OPTIMUM		64KHz "m" pattern
V-SIZE	1.EXT SW	Just over scan when OSD. V-SIZE SW. is MAX.	All of PRESET modes X'HATCH
	2.EXT SW	V-SIZE=232mm ± 5mm	
H-PHASE	HASE EXT SW $\frac{\mid R-L \mid}{2} \le 3mm$		All of PRESET modes , X'HATCH
V-CENTER	EXT SW	U-D   2 ≤ 3mm	Ali of PRESET modes , X'HATCH
H-WIDTH	VR306	Just over scan when OSD. H- WIDTH SW. is Max.	SVGA II
	EXT SW	H-WIDTH=310 ± 5mm	All of PRESET modes , X'HATCH
PCC	EXT SW	Let right side be straight	64KHz ,X'HATCH
HOLD DOWN TEST	P406	P406 short should be hold down	31.5KHz FULL WHITE
CORNER	VR303	Let right side be straight	64KHz ,X'HATCH
WHITE	OSD. CONTRAST	MAX. (DAC=100)	VGA-480 , MOSAIC
BALANCE PRE			Ditto
ADJ.	OSD. G2	RASTER Y=0.06FL	Ditto
	OSD. R.G.B. BIAS	RASTER x=281 $\pm$ 30,y=311 $\pm$ 30	Ditto
	OSD. CONTRAST	MOSAIC=45FL	Ditto

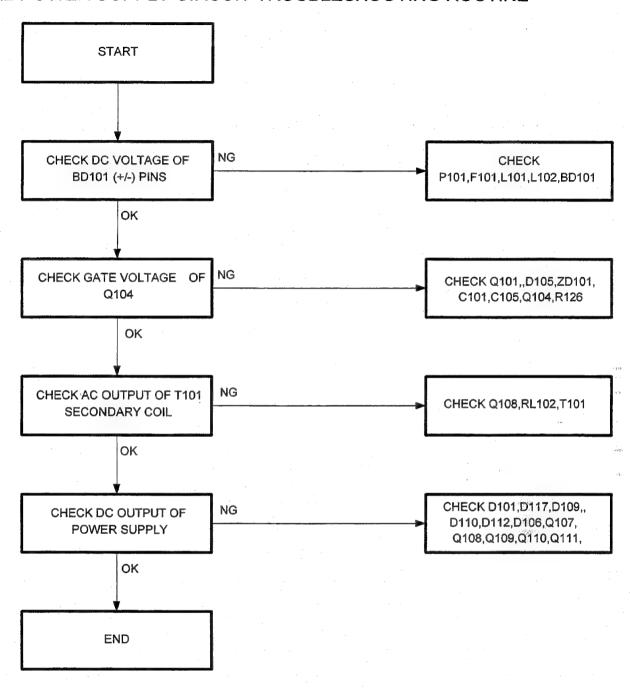
ADJUSTMENT		LOCATION		SPEC	CIFICATI	ON/DES	SCRIPTI	ON	TIMING	& PATTE	ERN
WHITE BALANCE ADJ.	OSD. R.	G.B. GAIN		MOD	E 1(930	•	81 ± 30 11 ± 30		VGA-480	FULL W	/HITE
D/12/11402/100		MOD	MODE 2(7500°K):x=301 ± 40,								
			MOD	E 3(650		$10 \pm 40$ $13 \pm 40$					
			MOD	E 4/500		$\frac{29 \pm 40}{45 \pm 40}$				e.	
					y=3	$51 \pm 40$					
	OSD. R.	G.B. BIAS		$1\pm10$ ,y		10 in 2-3FL		VGA-480	FULL W	VHITE	
BRIGHTNESS SETTING	OSD. BR	RIGHTNESS	DAC:	=50				Ditto			
SETTING	OSD CO	ONTRAST	MAX	(DAC=	100)			Ditto			
1		2 MANUAL				oar patte	rn is				
	000.0		1	isible.		·					
* .	Brightness			R+B		B+G	R+G				
. \			BRIGHT			BLUE +	RED + YELLOW	WHI	TE 7		
		15 BLUE	RED	PRUPLE	GREEN	GREEN	TELLOVV	VVIII	6		
		13						_	5		
	reduce	12							4		
		11							3		
		10	4						2 → visi	ble	
		9		-					1 →visi	ble obscu	rely
,		8							0		
						.,					
CONVERGENCE	4 POLE	OF PCM					JE lines		VGA-480		ERTA
ADJ.							the ang	le	X'HATCI	1	
	4.001.5	OF DOM			een the		BLUE line	06	VGA-480	MAG	ENTA
	4 POLE	OF PCM					ving the		X'HATCI		FIATA
					at the sa				7,1,1,1,0,1	•	
	6 POLF	OF PCM					MAGEN	TA	VGA-480	) , X'HAT	СН
		••••					y varyin				
					e betwee						
'	6 POLE	OF PCM			zontal Gl				VGA-480	) , X'HAT	CH
							converge		:		
					ioving the e time.	e two tai	bs at the				
			···	Same	c unie.		****				
			DEFLI	ECTION YOKE							
			1/1						1.		
				, / / / * / / / /	POLE						
				114	POLE ONVERGENCE I POLE						
			, u	\	ONVERGENCE I URITY MAGNET						
		. /	PCM-PHR1	Y CONVER	GENCE MA	GNET					
			. vinal VIAI							······	

# 7.0 TROUBLESHOOTING

#### 7.1 MAIN TROUBLESHOOTING ROUTINE



### 7.2 POWER SUPPLY CIRCUIT TROUBLESHOOTING ROUTINE



TEST CONDITIONS: TIMING : 640X480-60Hz (31K) PATTERN: CROSS HATCH

Unit: Volt

IC		IC101 (SG3842)										
PIN AC IN	1	2	3	4	5	6	7	8				
110V	2.94	2.51	0.86	2.45	GND	3.44	15.30	5.03				
220V	2.65	2.51	0.42	2.46	GND	1.45	15.23	5.03				

IC		IC103 (	PS2561)	IC104 (TL431)				
PIN AC IN	1	2	3	4	R	Α	к	
110V	75.0	73.83	2.08	5.03	73.15	0.11	75.04	
220V	148.9	147.8	2.40	5.03	145.3	143.1	147.5	

TR		Q101 (BT169D)		Q103 (C945)			
PIN AC IN	K	G	А	E	С	В	
110V	0.70	0	140.0	GND	0	0.72	
220V	0.15	0	291.4	GND	0	0.72	

TR		Q104 (2SK1507	)	. TR	Q102 (C945)			
PIN STATUS	G	D	S	PIN STATUS	E	С	В	
110V	3.04	138.4	0.85	NORMAL	GND	15.38	0.28	
220V	1.05	297.06	0.41	DEGAUSS	GND	15.43	0.81	

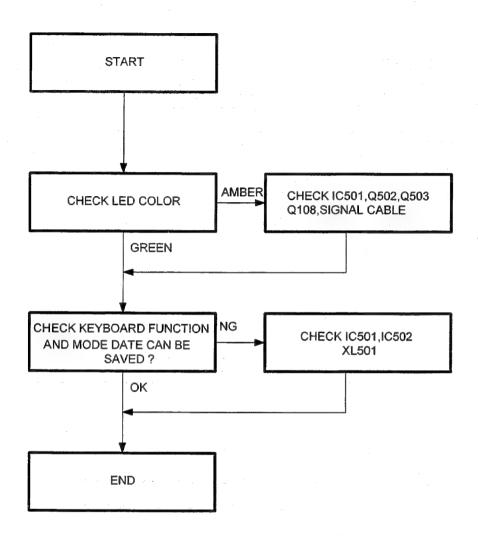
TR		IC102 (5002L)		IC501 (16P40 0.22F)			
PIN STATUS	1	G	0	20	21		
NORMAL	6.75	GND	5.04	0.37	0.19		
STAND BY	6.95	GND	5.04	4.79	0.19		
OFF	6.76	GND	5.04	4.79	0.19		

TR	Q105 (A733)			(	Q106 (C945)			Q107 (2SD882)		
PIN STATUS	E	С	В	E	С	В	E	С	В	
NORMAL	6.95	2.48	6.91	GND	6.88	0.20	12.08	15.27	12.73	
STAND BY	7.00	6.96	6.32	GND	0.07	0.69	-0.02	-0.69	-0.58	
OFF	7.00	6.96	6.31	GND	0.05	0.70	-0.05	-0.67	-0.58	

TR		Q109 (C945	)		Q110 (B562)	)	Q111 (C945)			
PIN STATUS	E	С	В	E	С	В	E	С	В	
NORMAL	6.22	12.73	0.64	6.90	6.67	6.07	GND	3.47	0.68	
STAND BY	-0.44	-0.58	-0.17	6.95	6.73	6.11	GND	3.59	0.68	
OFF	-0.42	-0.58	-0.18	7.00	0	7.00	GND	7	0	

TR		Q502 (C945)	)		Q503 (A733)	)	Q108 (C945)			
PIN STATUS	E	С	В	E	С	В	Ε	С	В	
NORMAL	0.29	1.98	0.18	1.98	1.93	1.26	GND	6.95	16.60	
STAND BY	1.88	1.92	2.62	1.92	0.46	4.76	GND	1.11	0.78	
OFF	1.88	1.92	2.62	1.92	0.52	4.78	GND	1.12	0.79	

# 7.3 MICON CIRCUIT TROUBLESHOOTING ROUTINE



TEST CONDITIONS: AC LINE IN:110V/60Hz

PATTERN: CROSS HATCH STATUS: NORMAL

Unit: Volt

	IC	IC501 (16P40 0.22F)										
MODEL	PIN MODE	1	2	3	4	5	6	7	8	9	10	
1769E/SE	640X480-60 (31K)	2.54	0.97	3.61	5.03	5.03	GND	2.77	2.61	0.43	5.03	
	640X480-85 (43K)	2.29	0.97	3.62	5.03	5.03	GND	2.77	2.61	0.43	5.03	
	1024X768-85 (69K)	2.04	2.97	3.62	5.03	5.03	GND	2.77	2.61	0.43	5.03	
1792E/SE	640X480-60 (31K)	2.57	1.28	1.07	5.03	5.03	GND	2.77	2.52	0.96	5.03	
	800X600-50 (53K)	2.36	1.18	1.07	5.03	5.03	GND	2.77	2.52	0.86	5.03	
	1280X1024-85 (92K)	1.95	1.18	1.07	5.03	5.03	GND	2.77	2.52	0.86	5.03	

	IC	IC501 (16P40 0.22F)										
MODEL	MODE	11	12	13	14	15	16	-17	18	19	20	
1769E/SE	640X480-60 (31K)	5.03	5.03	5.03	5.03	5.03	0.09	0.09	0.10	0.10	0.18	
	640X480-85 (43K)	5.03	5.03	5.03	5.03	5.03	5.00	0.09	5.00	0.10	0.18	
	1024X768-85 (69K)	5.03	5.03	5.03	5.03	5.03	5.00	5.00	5.00	0.10	0.18	
1792E/SE	640X480-60 (31K)	5.03	5.03	5.03	5.03	5.03	0.01	0.01	0.01	5.00	0.07	
	800X600-50 (53K)	5.03	5.03	5.03	5.03	5.03	5.00	5.00	0.01	0.01	0.07	
	1280X1024-85 (92K)	5.03	5.03	5.03	5.03	5.03	5.00	5.00	5.00	5.00	0.07	

·	IC	IC501 (16P40 0.22F)										
MODEL	MODE	21	22	23	24	25	26	27	28	29	30	
1769E/SE	640X480-60 (31K)	0.19	0.25	0.11	0.11	5.03	5.03	4.87	1.92	1.32	1.88	
,	640X480-85 (43K)	0.19	0.25	0.11	0.11	5.03	5.03	4.87	1.92	1.52	1.90	
	1024X768-85 (69K)	0.19	0.25	0.11	0.12	5.03	5.03	4.87	1.92	1.78	1.78	
1792E/SE	640X480-60 (31K)	5.03	0.14	0.01	0.02	5.03	5.03	4.87	1.92	1.82	2.34	
	800X600-50 (53K)	5.03	0.14	0.01	0.02	5.03	5.03	4.87	1.92	1.81	2.21	
	1280X1024-85 (92K)	5.03	0.14	0.01	0.02	5.03	5.03	4.87	1.92	2.68	2.12	

	IC	IC501 (16P40 0.22F)											
MODEL	MODE	31	32	33	34	35	36	37	38	39	40		
1769E/SE	640X480-60 (31K)	3.40	0.31	0.59	2.49	2.16	1.75	2.56	0.18	4.13	4.69		
	640X480-85 (43K)	3.76	0.31	0.28	2.38	2.27	2.45	2.46	1.06	4.42	4.68		
	1024X768-85 (69K)	3.87	0.31	0.35	2.36	2.32	2.32	2.64	3.04	0.39	0.22		
1792E/SE	640X480-60 (31K)	2.37	0.20	0.59	2.48	2.18	1.38	2.47	0.16	3.44	4.68		
	800X600-50 (53K)	2.86	0.20	0.30	2.43	2.24	1.91	2.49	1.86	0.30	0.23		
	1280X1024-85 (92K)	2.90	0.20	0.45	2.28	2.33	2.08	2.79	4.88	0.43	0.22		

	IC	IC502 (AT24C04)										
MODEL	PIN MODE	1	2	3	4	5	6	7	8			
1769E/SE	640X480-60 (31K)	5.03	GND	5.03	GND	0.43	5.03	GND	5.03			
	640X480-85 (43K)	5.03	GND	5.03	GND	0.43	5.03	GND	5.03			
	1024X768-85 (69K)	5.03	GND	5.03	GND	0.43	5.03	GND	5.03			
1792E/SE	640X480-60 (31K)	5.03	GND	5.03	GND	0.85	5.03	GND	5.03			
	800X600-50 (53K)	5.03	GND	5.03	GND	0.85	5.03	GND	5.03			
	1280X1024-85 (92K)	5.03	GND	5.03	GND	0.85	5.03	GND	5.03			

	IC	IC503 (74LS74)										
MODEL	MODE	. 1	2	3	4	5	6	7				
1769E/SE	640X480-60 (31K)	NC	2.08	0.27	NC	1.97	2.08	GND				
	640X480-85 (43K)	NC	2.11	0.27	NC	1.97	2.11	GND				
	1024X768-85 (69K)	NC	2.13	0.27	NC	1.97	2.11	GND				
1792E/SE	640X480-60 (31K)	NC	2.08	0.27	NC	1.97	2.08	GND				
	800X600-50 (53K)	NC	2.11	0.27	NC	1.97	2.11	GND				
	1280X1024-85 (92K)	NC	2.13	0.27	NC	1.97	2.11	GND				

	IC	IC503 (74LS74)										
MODEL	MODE	8	9	10	11	12	13	14				
1769E/SE	640X480-60 (31K)	NC	NC	NC	NC	NC	NC	5.03				
	640X480-85 (43K)	NC	NC	NC	NC	NC	NC	5.03				
	1024X768-85 (69K)	NC	NC	NC	NC	NC	NC	5.03				
1792E/SE	640X480-60 (31K)	NC	NC	NC	NC	NC	NC	5.03				
	800X600-50 (53K)	NC	NC	NC	NC	NC	NC	5.03				
	1280X1024-85 (92K)	NC	NC	NC	NC	NC	NC	5.03				

	TR	Q501 (A733)			Q	504 (A73	3)	Q505 (C945)		
MODEL	PIN MODE	E	С	В	E	С	В	E	С	В
1769E/SE	640X480-60 (31K)	5.03	5.01	4.36	5.03	0.13	5.00	GND	5.00	0.30
	640X480-85 (43K)	5.03	5.01	4.36	5.03	0.17	5.00	GND	5.00	0.30
	1024X768-85 (69K)	5.03	5.01	4.36	5.03	0.26	5.00	GND	5.00	0.30
1792E/SE	640X480-60 (31K)	5.03	5.01	4.36	5.03	0.11	5.00	GND	5.00	0.19
	800X600-50 (53K)	5.03	5.01	4.36	5.03	0.19	5.00	GND	5.00	0.19
	1280X1024-85 (92K)	5.03	5.01	4.36	5.03	0.33	5.00	GND	5.00	0.19

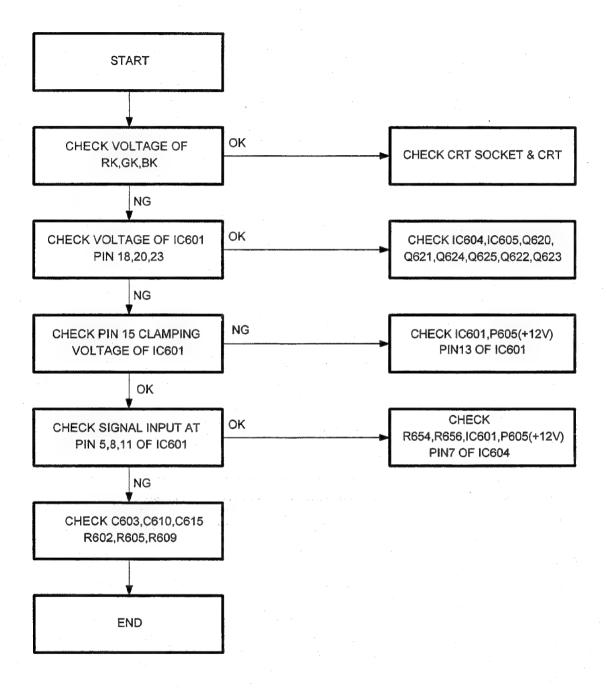
	TR	Q506 (C337)			Q	507 (C94	5)	Q508 (A733)		
MODEL	MODE	E	С	В	Ε	С	В	E	С	В
1769E/SE	640X480-60 (31K)	9.32	12.05	7.68	0.78	5.03	0.18	0.78	GND	0.18
	640X480-85 (43K)	9.32	12.05	7.68	1.49	5.03	1.06	1.49	GND	1.06
	1024X768-85 (69K)	9.32	12.05	7.68	2.99	5.03	3.05	2.99	GND	3.05
1792E/SE	640X480-60 (31K)	7.37	12.05	9.77	0.74	5.03	0.17	0.75	GND	0.17
	800X600-50 (53K)	7.37	12.05	9.77	2.09	5.03	1.86	2.09	GND	1.86
	1280X1024-85 (92K)	7.37	12.05	9.77	4.39	5.03	4.86	4.36	GND	4.86

	TR		Q510 (C327)	)	Q511 (A733)				
MODEL	MODE	E	С	В	E	C	В		
1769E/SE	640X480-60 (31K)	9.32	GND	9.22	. 1.96	0.06	3.37		
	640X480-85 (43K)	9.32	GND	9.22	1.96	0.06	3.37		
	1024X768-85 (69K)	9.32	GND	9.24	1.96	0.06	3.37		
1792E/SE	640X480-60 (31K)	7.54	GND	7.37	1.96	0.06	3.37		
	800X600-50 (53K)	7.54	GND	7.37	1.96	0.06	3.37		
	1280X1024-85 (92K)	7.54	GND	7.38	1.96	0.06	3.37		

	TR		Q513 (C945)			Q514 (C945)	
MODEL	MODE	E	С	В	E	С	В
1769E/SE	640X480-60 (31K)	4.69	5.03	4.68	0.24	9.22	0.85
	640X480-85 (43K)	4.68	5.03	4.68	0.24	9.22	0.85
	1024X768-85 (69K)	0.23	5.03	0.22	0.24	9.24	0.85
1792E/SE	640X480-60 (31K)	4.69	5.03	0.59	0.41	7.36	1.02
	800X600-50 (53K)	0.22	5.03	0.30	0.41	7.36	1.02
	1280X1024-85 (92K)	0.22	5.03	0.45	0.41	7.36	1.02

7.0 TROUBLESHOOTING 1769E/SE.1792E/SE

## 7.4 VIDEO CIRCUIT TROUBLESHOOTING ROUTINE



# MODEL: 1769E/SE

TEST CONDITIONS: AC LINE IN:110V/60Hz

TIMING: 640X480-60Hz (31K)

PATTERN: a. Full white b. Cross-hatch

Unit: Volt

													011	it. VOIL
IC							IC601 (	LM1282	)					
PIN MODE	1	2	3	4	5	6	7	. 8	9	10	11	12	13	14
Full white	0	0	0	0	2.53	12.01	0	2.63	12.01	0	2.52	2.03	2.28	2.00
Cross-hatch	0	0	0	0	2.08	12.01	0	2.08	12.01	0	2.08	2.03	2.38	2.00

IC							IC601 (I	_M1282)	)					
PIN MODE	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Full white	3.67	3.58	7.63	2.73	7.65	2.77	0	12.01	2.57	7.53	0.62	2.50	2.56	2.19
Cross-hatch	3.67	3.58	7.66	0.91	7.68	0.94	0	12.01	0.94	7.56	0.62	2.50	2.56	2.19

IC					IC603 (I	/35043)				
PIN MODE	1	2	3	4	5	6	7	8	9	10
Full white	5.02	GND	5.01	5.01	5.01	0.40	GND	5.02	NC	5.01
Cross-hatch	5.02	GND	5.01	5.02	5.02	0.41	GND	5.02	NC ·	5.02

IC					IC603 (1	M35043)				
PIN MODE	11	12	13	14	15	16	17	18	19	20
Full white	GND	0	0	NC	0	NC	0	4.69	4.99	5.02
Cross-hatch	GND	0	0	NC	0	NC	0	4.69	4.99	5.02

IC				IC	604 (M6235	9)			
PIN MODE	1	2	3	4	5	6	7	8	9
Full white	5.02	5.02	26.0	5.51	2.57	5.00	GND	GND	5.02
Cross-hatch	5.02	5.02	0.24	2.51	2.57	5.00	GND	GND	5.02

IC	-			. IC	604 (M6235	59)			
PIN MODE	10	11	12	13	14	15	16	17	18
Full white	5.02	5.02	2.42	2.44	3.34	1.86	NC	5.02	5.02
Cross-hatch	5.02	5.02	2.42	2.44	3.34	1.86	NC	5.02	5.02

IC					IC	605 (LM24	05)	-			
PIN MODE	1	2	3	4	5	6	7	8	9	10	11
Full white	44.5	GND	46.5	GND	43.3	76.0	GND	2.71	2.52	10.78	2.67
Cross-hatch	68.4	GND	68.0	GND	67.9	76.0	GND	0.95	0.95	10.58	0.93

TR		Q619 (C945)			Q620 (F423	3)		Q621 (F422)	
PIN MODE	E	С	В	E	С	В	E	С	В
Full white	GND	3.59	0	110.7	GND	109.9	2.77	109.8	3.33
Cross-hatch	GND	3.59	0	111.2	GND	110.2	2.76	110.1	3.33

TR		Q622 (F423	)		Q623 (F423)			Q624 (F423	)
PIN MODE	Ε	С	В	E	С	В	Е	С	В
Full white	115.3	GND	114.6	1.86	114.4	2.41	115.7	GND	114.9
Cross-hatch	115.7	GND	114.9	1.85	114.8	2.41	116.0	GND	115.3

TR		Q625 (F422)	)		Q627 (C945	5)		Q628 (C945	)
PIN MODE	E	С	В	E	С	В	E	С	В
Full white	1.87	114.9	2.43	GND	4.69	-0.34	GND	3.67	0
Cross-hatch	1.86	115.2	2.43	GND	4.70	-0.30	GND	3.67	0

TR		Q629 (C945)	)			
PIN MODE	E	С	В			
Full white	GND	0	0			
Cross-hatch	GND	0	0			

# MODEL: 1792E/SE

TEST CONDITIONS: AC LINE IN:110V/60Hz

TIMING: 640X480-60Hz (31K)
PATTERN: a. Full white b. Cross-hatch

 			•
Inil	٠. ١	/△	ŀ
 ,, ,,	. 1	<i>'</i> ' ' '	1

IC		IC601 (M52737SP)											
PIN MODE	1	2	3	4	5	6	7	8	9	10			
Full white	0.02	11.98	2.94	3.14	0.02	GND	11.98	2.94	3.55	0.02			
Cross-hatch	0.02	11.98	2.49	3.14	0.02	GND	11.98	2.49	3.55	0.02			

IC		IC601 (M52737SP)											
PIN MODE	11	12	13	14	15	16	17	18	19	20			
Full white	GND	11.98	2.93	3.44	0.02	GND	3.88	1.08	1.18	0.34			
Cross-hatch	GND	11.98	2.49	3.44	0.02	GND	4.23	1.10	1.18	0.35			

IC		IC601 (M52737SP)											
PIN MODE	21	22	23	24	25	26	27	28	29	30			
Full white	GND	NC	3.86	11.98	2.98	GND	NC	3.86	11.98	3.04			
Cross-hatch	GND	NC	3.82	11.98	1.22	GND	NC	3.82	11.98	1.23			

IC ···	IC601 (M52737SP)											
PIN MODE	31	32	33	34	35	36						
Full white	GND	NC	3.86	11.98	2.79	2.28						
Cross-hatch	GND	NC	3.81	11.98	1.20	2.28						

IC		IC603 (M35043)											
PIN MODE	1	2	3	4	5	6	7	8	9	10			
Full white	5.01	GND	5.01	5.01	5.01	0.93	GND	5.02	NC	5.01			
Cross-hatch	5.01	GND	5.01	5.01	5.02	0.95	GND	5.02	NC	5.01			

IC		IC603 (M35043)											
PIN MODE	11	12	13	14	15	16	17	18	19	20			
Full white	GND	0.02	0.02	NC	0.02	NC	0.02	4.70	4.98	5.02			
Cross-hatch	GND	0.01	0.01	NC	0.01	NC	0.01	4.71	4.99	5.02			

IC		IC604 (M62359)											
PIN MODE	1	2	3	4	5	6	7	8	9				
Full white	5.01	5.01	0.77	4.25	4.45	3.69	5.01	GND	GND				
Cross-hatch	5.01	5.01	0.78	4.26	4.45	3.69	5.01	GND	GND				

IC		IC604 (M35043)											
PIN MODE	10	11	12	13	14	15	16	17	18				
Full white	5.02	5.02	1.59	1.23	2.27	3.76	0.01	5.02	5.02				
Cross-hatch	5.02	5.02	1.59	1.24	2.27	3.77	0.01	5.02	5.02				

IC		IC605 (LM2405)										
PIN MODE	1,	2	3	4	5	6	7	8	9	10	11	
Full white	40.98	GND	43.41	GND	39.64	75.52	GND	2.95	2.71	10.86	2.89	
Cross-hatch	64.51	GND	64.72	GND	64.23	75.49	GND	1.22	1.19	10.69	1.21	

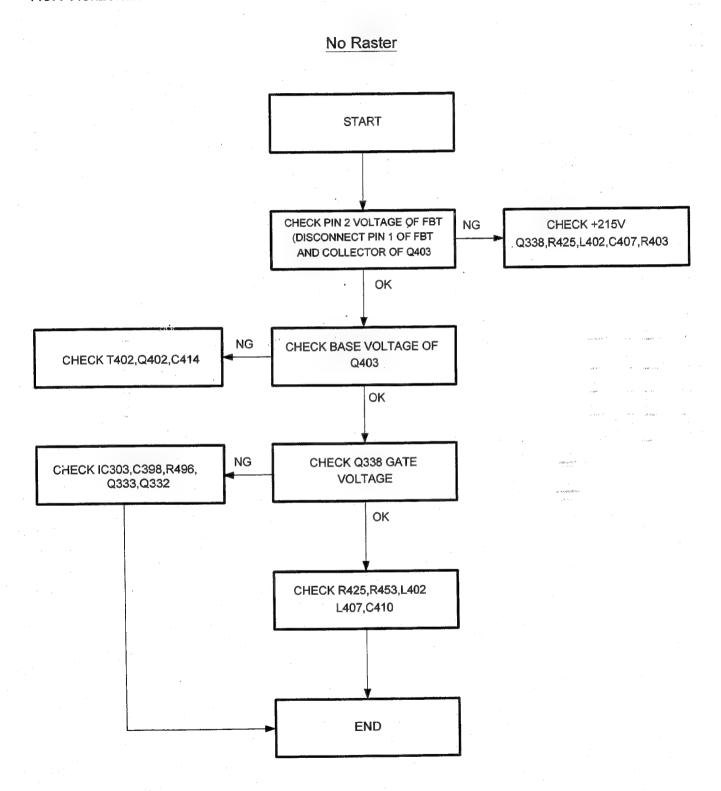
TR		Q603 (C945)	)		Q606 (C945)	)	Q620 (F423)			
PIN MODE	E	С	В	E	С	В	E	С	В	
Full white	3.44	5.02	4.05	GND	110.6	0	116.2	GND	115.5	
Cross-hatch	3.44	5.02	4.05	GND	0.13	0	117.3	GND	116.4	

TR		Q621 (F422)			Q622 (F423	)	Q623 (F422)			
PIN MODE	E	С	В	E	C .	В	E	С	В	
Full white	1.68	115.6	2.27	120.3	GND	119.5	1.01	119.5	1.59	
Cross-hatch	1.68	116.3	2.27	121.3	GND	120.4	1.00	120.3	1.59	

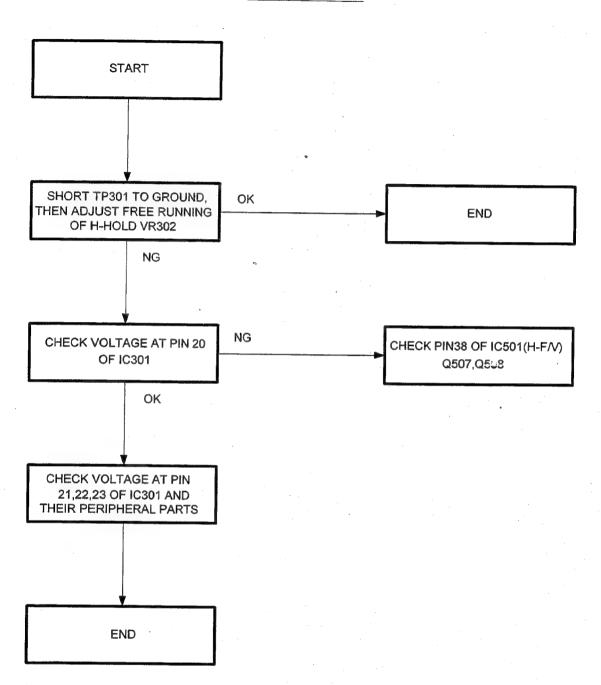
TR		Q624 (F423)	)		Q625 (F422)	)	Q627 (C945)			
PIN MODE	E	С	В	E	С	В	E	С	В	
Full white	122.5	GND	121.7	0.66	121.8	1.23	GND	4.70	0.24	
Cross-hatch	123.5	GND	122.6	0.65	122.4	1.23	GND	4.71	0.24	

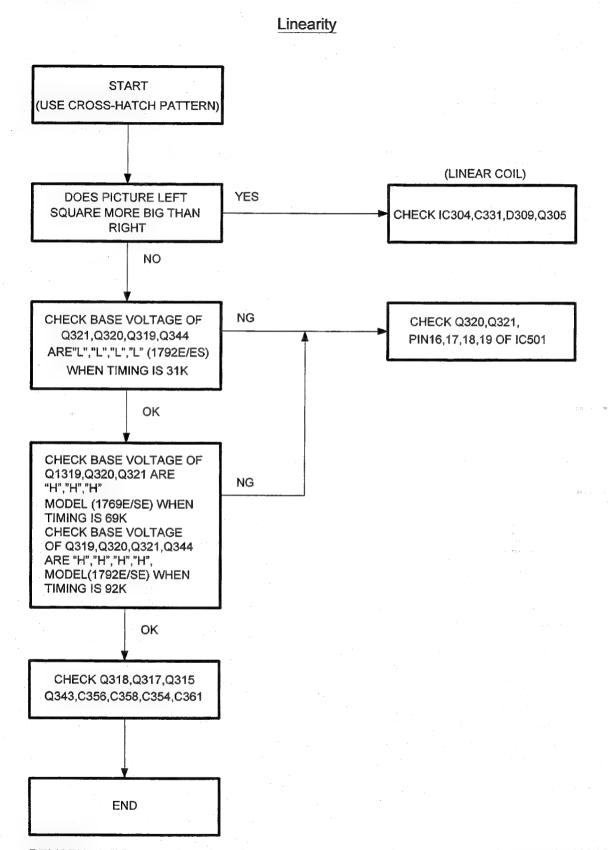
# 7.5 DEFLECTION CIRCUIT TROUBLESHOOTING ROUTINE

# 7.5.1 Horizontal Deflection Circuit



## H-Asynchronous



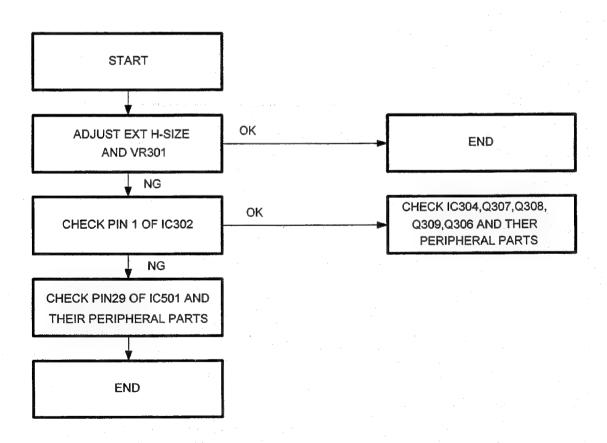


REMARK: 1. "L" means the voltage between gate and source is <4V which can't turn on the MOSFET.

2. "H" means the voltage between gate and source is ≥4V which can turn on the MOSFET.

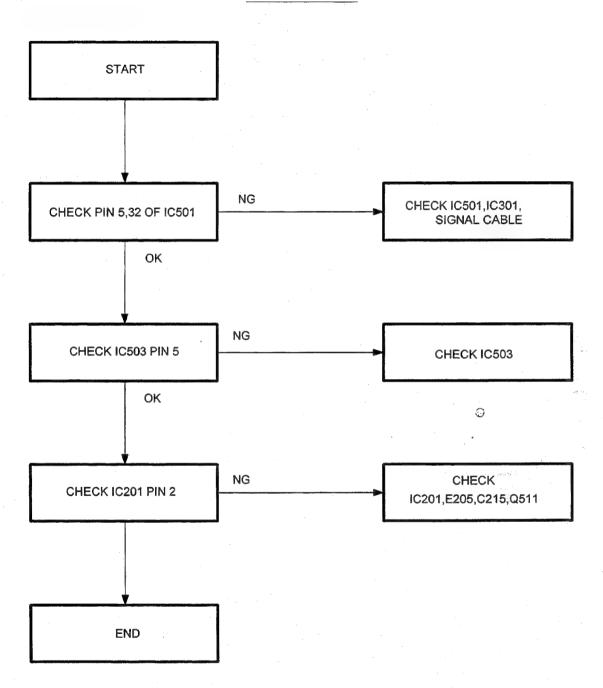
# Out of phase START CHECK H-PHASE VOLTAGE PIN 1 OF IC501 OK CHECK R501,R327,R271, R223,C236 OK END

#### Width Abnormal

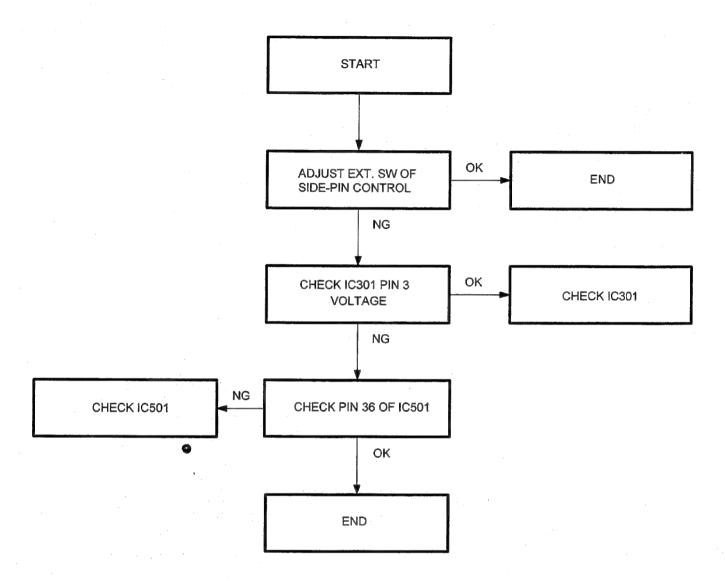


#### 7.5.2 Vertical Deflection Circuit

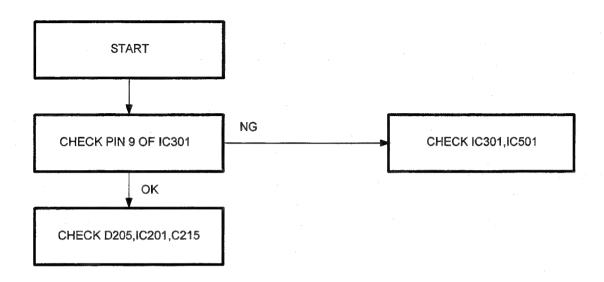
#### No vertical scan



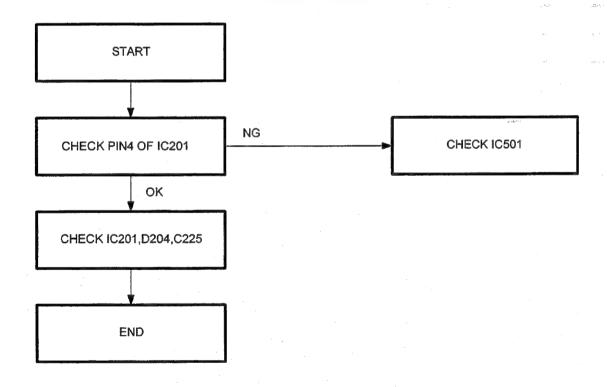
# Side pin distortion



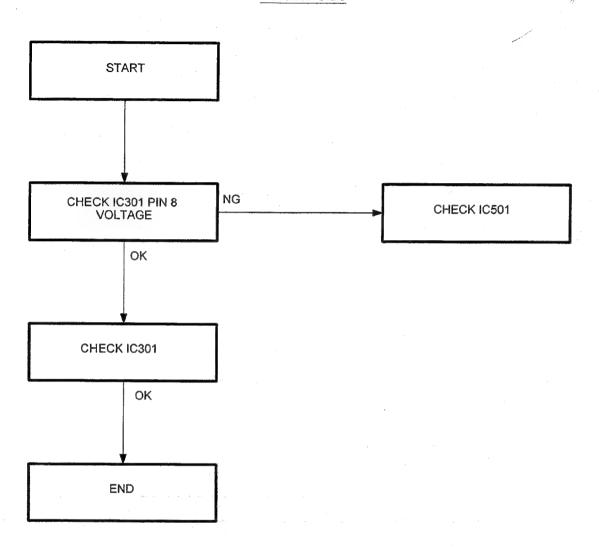
# V-Asynchronous



### Vertical position



# Vertical Size



TEST CONDITIONS: AC LINE IN:110V/60Hz

PATTERN: CROSS HATCH

STATUS: NORMAL

Unit: Volt

IC		IC301 (UPC1883)										
MODEL	PIN MODE	1	2	3	4	5	6	7	8	9	10	
	640X480-60 (31K)	2.32	2.54	1.85	2.41	2.53	4.14	3.09	2.32	3.53	3.58	
	640X480-85 (43K)	2.32	2.52	2.14	2.45	2.48	4.14	3.22	2.36	2.53	3.60	
	1024X768-85 (69K)	2.32	2.56	2.78	2.47	2.47	4.14	3.22	2.37	3.53	3.64	
1792E/SE	640X480-60 (31K)	2.49	2.51	1.71	2.41	2.53	4.10	3.25	2.25	3.50	3.56	
	800X600-50 (53K)	2.49	2.52	2.11	2.43	2.50	4.10	3.19	2.29	3.50	3.58	
	1280X1024-85 (92K)	2.49	2.59	2.74	2.46	2.43	4.10	3.19	2.30	3.50	3.61	

	IC301 (UPC1883)										
MODEL	PIN MODE	11	12	13	14	15	16	17	18	19	20
	640X480-60 (31K)	3.48	2.66	2.41	5.01	GND	9.13	0.59	4.39	1.40	1.39
	640X480-85 (43K)	3.48	2.66	2.41	5.01	GND	9.13	0.90	4.49	1.95	1.95
	1024X768-85 (69K)	3.48	2.66	2.41	5.01	GND	9.13	0.54	4.72	3.13	3.13
	640X480-60 (31K)	3.47	2.63	2.38	4.97	GND	9.10	0.52	4.35	1.38	1.38
	800X600-50 (53K)	3.47	2.63	2.38	4.97	GND	9.10	1.06	4.55	2.41	2.42
	1280X1024-85 (92K)	3.46	2.63	2.38	4.97	GND	9.10	1.87	4.94	4.20	4.19

	IC301 (UPC1883)										
MODEL	PIN MODE	21	22	23	24	25	26	27	28	29	30
1769E/SE	640X480-60 (31K)	1.96	8.30	8.02	3.47	2.43	0.60	3.65	2.47	3.59	GND
	640X480-85 (43K)	2.21	8.29	8.08	3.51	2.30	0.29	. 3.65	2.47	3.63	GND
	1024X768-85 (69K)	2.73	8.28	8.19	3.51	2.17	0.35	3.65	4.47	3.63	GND
1792E/SE	640X480-60 (31K)	1.87	8.25	7.99	3.44	2.44	0.59	3.62	2.44	3.43	GND
	800X600-50 (53K)	2.29	8.24	8.09	3.52	2.33	0.30	3.62	2.44	3.45	GND
	1280X1024-85 (92K)	3.00	8.22	8.25	3.66	2.11	0.45	3.62	2.45	3.47	GND

	IC	IC302 (LM358)										
MODEL	MODE	1	2	3	4	5	6	7	8			
1769E/SE	640X480-60 (31K)	7.01	6.10	6.10	GND	9.78	9.78	9.78	15.4			
	640X480-85 (43K)	7.66	6.11	6.10	GND	9.62	9.62	9.62	15.4			
	1024X768-85 (69K)	8.30	6.11	6.11	GND	9.31	9.31	9.31	15.4			
1792E/SE	640X480-60 (31K)	5.73	6.01	6.00	GND	9.31	9.30	9.30	15.5			
	800X600-50 (53K)	6.54	6.01	6.00	GND	9.17	9.16	9.16	15.5			
	1280X1024-85 (92K)	6.80	6.01	6.00	GND	8.43	8.42	8.42	15.5			

	IC	IC303 (3843)										
MODEL	PIN MODE	1	2	3	4	5	6	7	8			
1769E/SE	640X480-60 (31K)	1.33	2.50	0.88	2.13	GND	2.28	11.30	5.01			
	640X480-85 (43K)	1.44	2.50	0.58	2.46	GND	3.25	11.30	5.01			
	1024X768-85 (69K)	1.80	2.50	0.61	2.31	GND	5.93	11.28	5.01			
1792E/SE	640X480-60 (31K)	1.17	2.48	0.41	2.18	GND	2.11	11.27	4.97			
	800X600-50 (53K)	1.45	2.48	0.39	2.04	GND	3.83	11.25	4.7			
	1280X1024-85 (92K)	1.71	2.48	0.52	1.94	GND	7.91	11.22	4.97			

	IC	IC304 (2903D)										
MODEL	MODE	1	2	3	4	5	6	7	8			
1769E/SE	640X480-60 (31K)	0.35	9.70	3.32	GND	9.71	7.03	10.60	15.3			
	640X480-85 (43K)	0.51	8.86	3.34	GND	8.82	7.53	9.10	15.3			
	1024X768-85 (69K)	0.94	6.96	3.35	GND	6.82	8.08	5.53	15.3			
1792E/SE	640X480-60 (31K)	0.34	4.81	3.33	GND	9.81	5.91	11.56	15.4			
	800X600-50 (53K)	0.65	8.23	3.34	GND	8.21	6.52	9.10	15.4			
	1280X1024-85 (92K)	1.48	5.16	3.36	GND	5.13	6.59	5.04	15.4			

	IC	IC201 (LA7840)											
MODEL	PIN MODE	1	2	3	4	5	6	7					
1769E/SE	640X480-60 (31K)	-12.0	-0.06	14.71	1.37	1.37	15.1	-10.9					
	640X480-85 (43K)	-12.0	-0.12	14.90	1.37	1.37	15.2	-10.7					
	1024X768-85 (69K)	-12.0	-0.12	14.97	1.37	1.37	15.3	-10.7					
1792E/SE	640X480-60 (31K)	-11.89	-0.02	14.83	1.37	1.37	15.26	-10.73					
	800X600-50 (53K)	-11.90	-0.04	15.02	1.37	1.37	15.33	-10.55					
	1280X1024-85 (92K)	-11.94	-0.05	15.07	1.37	1.37	15.38	-10.61					

	TR	Q208 (C945)			Q	302 (A73	3)	Q303 (C945)		
MODEL	PIN MODE	Е	С	В	E	С	В	Е	С	В
1769E/SE	640X480-60 (31K)	GND	13.94	-0.20	5.60	GND	4.98	3.98	15.30	4.36
	640X480-85 (43K)	GND	13.56	-0.21	5.60	GND	4.98	4.09	15.30	4.46
	1024X768-85 (69K)	GND	12.62	-0.19	5.60	GND	4.98	4.33	15.30	4.70
1792E/SE	640X480-60 (31K)	GND	14.21	-0.11	5.60	GND	4.98	3.98	15.30	4.32
	800X600-50 (53K)	GND	13.45	-0.94	5.60	GND	4.98	4.14	15.30	4.53
	1280X1024-85 (92K)	GND	12.28	-0.83	5.60	GND	4.98	4.54	15.30	4.92

	TR	Q304 (A733)			Q3	305 (JC3	37)	Q306 (J449)		
MODEL	PIN MODE	E	С	В	Е	С	В	G	D	S
1769E/SE	640X480-60 (31K)	3.98	GND	4.36	GND	6.72	-1.19	213.2	215.8	60.0
	640X480-85 (43K)	4.09	GND	4.46	GND	6.50	-1.46	211.9	215.8	83.4
	1024X768-85 (69K)	4.33	GND	4.70	GND	5.97	-1.82	208.9	215.8	139.5
1792E/SE	640X480-60 (31K)	3.98	GND	4.32	GND	6.77	-1.15	212.7	214.8	42.9
	800X600-50 (53K)	4.14	GND	4.53	GND	6.33	-1.58	210.7	214.8	77.4
	1280X1024-85 (92K)	4.54	GND	4.92	GND	5.53	-1.99	207.4	214.8	149.5

	TR	Q307 (C945)			Q	308 (A73	3)	Q309 (A733)		
MODEL	MODE	E	O	В	E	С	В	E	С	В
1769E/SE	640X480-60 (31K)	10.40	15.30	10.57	10.40	GND	10.57	7.76	GND	10.38
	640X480-85 (43K)	9.05	15.30	9.04	9.05	GND	9.04	7.78	GND	10.35
	1024X768-85 (69K)	5.75	15.30	5.42	5.75	GND	5.42	8.12	GND	10.25
1792E/SE	640X480-60 (31K)	11.38	15.33	11.62	5.45	GND	11.62	6.69	GND	10.38
	800X600-50 (53K)	9.16	15.30	9.15	11.38	GND	9.16	6.85	GND	10.33
	1280X1024-85 (92K)	5.44	15.30	5.08	9.16	GND	5.09	6.71	GND	8.99

	TR	Q310 (A733)			Q311 (C945)			Q312 (C945)		
MODEL	MODE PIN	E	С	В	E	C	В	E	С	В
	640X480-60 (31K)	13.83	9.71	13.30	10.38	15.30	10.99	GND	9.71	-0.24
	640X480-85 (43K)	13.89	8.86	13.30	10.35	15.30	10.96	GND	8.86	-0.33
	1024X768-85 (69K)	13.96	6.92	13.30	10.25	15.30	10.86	GND	6.92	-0.51
1792E/SE	640X480-60 (31K)	13.86	9.81	13.30	10.38	15.30	11.01	GND	9.81	-0.34
	800X600-50 (53K)	13.85	8.25	13.30	10.34	15.30	10.96	GND	8.25	-0.51
	1280X1024-85 (92K)	13.89	5.23	13.30	8.98	15.30	9.60	GND	5.23	-0.77

	TR	Q313 (C4924)			Q	314 (N25	4)	Q315 (IRF630)		
MODEL	PIN MODE	Е	С	В	G	D	S	G	D	S
1769E/SE	640X480-60 (31K)	GND	28.46	-0.68	3.93	57.24	GND	15.33	0.05	GND
	640X480-85 (43K)	GND	39.45	-0.69	4.04	55.22	GND	0.25	35.83	GND
	1024X768-85 (69K)	GND	66.54	-0.71	4.29	51.25	GND	0.26	43.06	GND
1792E/SE	640X480-60 (31K)	GND	23.06	-0.52	3.94	49.24	GND	15.50	-0.05	GND
	800X600-50 (53K)	GND	40.74	-0.50	4.15	44.66	GND	0.16	27.70	GND
	1280X1024-85 (92K)	GND	79.96	-0.49	4.56	38.06	GND	0.18	46.86	GND

	TR	Q316 (C945)			Q317 (	IRF630)(	K2136)	Q318 (K2136)		
MODEL	MODE	E	С	В	G	D	S	G	D	S
1769E/SE	640X480-60 (31K)	4.97	9.12	5.63	15.33	0.03	GND	15.18	0.05	GND
	640X480-85 (43K)	4.97	9.12	5.63	15.38	0.11	GND	0.26	35.96	GND
	1024X768-85 (69K)	4.97	9.11	5.63	0.26	43.24	GND	0.27	43.28	GND
1792E/SE	640X480-60 (31K)	4.94	9.14	5.60	15.50	-0.05	GND	15.42	-0.04	GND
	800X600-50 (53K)	4.94	9.14	5.60	0.16	27.90	GND	15.49	-0.02	GND
	1280X1024-85 (92K)	4.94	9.12	5.60	0.18	47.10	GND	0.17	47.23	GND

	TR	Q319 (C945)			Q	320 (C94	5)	Q321 (C945)		
MODEL	MODE	E	С	В	E	С	В	E	С	В
1769E/SE	640X480-60 (31K)	GND	15.30	0.09	GND	15.30	0.09	GND	15.23	0.10
	640X480-85 (43K)	GND	0.25	0.68	GND	15.38	0.09	GND	0.26	0.68
	1024X768-85 (69K)	GND	0.26	0.69	GND	0.26	0.68	GND	0.27	0.69
1792E/SE	640X480-60 (31K)	GND	15.51	0	GND	15.51	-0.01	GND	15.50	0
. (1)	800X600-50 (53K)	GND	0.16	0.68	GND	0.16	0.68	GND	15.55	0
	1280X1024-85 (92K)	GND	0.18	0.68	GND	0.18	0.68	GND	0.17	0.68

	TR	Q322 (C945)			Q	323 (A73	3)	Q324 (C945)		
MODEL	MODE PIN	Ε.	С	В	E	С	В	E	С	В
1769E/SE	640X480-60 (31K)	1.04	5.03	1.17	3.97	GND	3.96	3.97	12.07	3.96
	640X480-85 (43K)	1.27	5.03	1.79	4.07	GND	4.07	4.07	12.07	4.07
	1024X768-85 (69K)	2.51	5.03	3.10	4.28	GND	4.31	4.28	12.07	4.31
1792E/SE	640X480-60 (31K)	0.96	5.03	1.16	3.93	GND	3.91	3.93	12.03	3.91
	800X600-50 (53K)	1.73	5.03	2.32	4.11	GND	4.13	4.11	12.03	4.13
	1280X1024-85 (92K)	3.68	5.03	4.31	4.45	GND	4.53	4.45	12.03	4.53

	TR	Q	332 (A94	5)	Q	333 (A73	3)	Q	338 (K137	77)
MODEL	PIN MODE	E	С	В	E	С	В	G	D	S
1769E/SE	640X480-60 (31K)	2.52	11.26	3.09	3.09	GND	2.49	2.27	165.7	0.31
	640X480-85 (43K)	2.52	11.26	3.09	3.09	GND	2.49	3.25	143.4	0.35
	1024X768-85 (69K)	2.51	11.26	3.09	3.09	GND	2.49	5.87	72.4	72.4
1792E/SE	640X480-60 (31K)	2.49	11.21	3.07	3.06	GND	2.47	2.12	168.1	0.22
	800X600-50 (53K)	2.49	11.19	3.07	3.06	GND	2.47	3.84	128.4	0.25
	1280X1024-85 (92K)	2.49	11.16	3.06	3.06	GND	2.47	7.94	29.30	0.37

	TR	Q	Q339 (C945)		Q340 (C945)			Q341 (C945)		
MODEL	PIN MODE	E	С	В	E	С	В	E	O	В
1769E/SE	640X480-60 (31K)	GND	13.94	-0.12	GND	10.83	0.06	13.67	15.40	13.94
	640X480-85 (43K)	GND	13.56	-0.16	GND	10.96	0.05	13.23	15.40	13.56
	1024X768-85 (69K)	GND	12.62	-0.26	GND	10.94	0.03	12.45	15.40	12.62
1792E/SE	640X480-60 (31K)	GND	14.22	-0.10	GND	11.02	0.03	13.96	15.53	14.22
	800X600-50 (53K)	GND	13.46	-1.09	GND	11.06	0.02	13.23	15.58	13.46
	1280X1024-85 (92K)	GND	12.26	-0.18	GND	11.10	0.02	12.13	15.63	12.28

	TR	Q342 (A733)		Q343 (K2136)			Q344 (C945)			
MODEL	MODE	Е	C	В	G	D	S	E	С	В
1769E/SE	640X480-60 (31K)	13.67	GND	13.94				2 (2 12 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	640X480-85 (43K)	13.23	GND	13.56				ens(e)		
	1024X768-85 (69K)	12.45	GND	12.62						
1792E/SE	640X480-60 (31K)	13.97	GND	14.22	15.50	-0.04	GND	GND	15.51	0
	800X600-50 (53K)	13.23	GND	13.45	0.17	28.07	GND	GND	0.17	0.68
	1280X1024-85 (92K)	12.13	GND	12.28	0.18	47.26	GND	GND	0.18	0.68

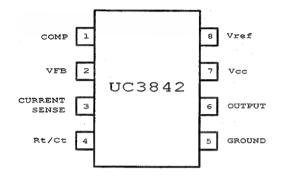
	TR	Q	401 (F48	3)	Q	402 (F48	3)	Q4	03 (C529	96)
MODEL	MODE PIN	E	С	В	E	С	В	E	C	В
1769E/SE	640X480-60 (31K)	-88.1	-16.6	-96.6	0.69	134.2	1.25	166.2	215.8	165.8
	640X480-85 (43K)	-88.1	-16.5	-96.7	0.68	142.2	1.25	143.7	215.8	143.4
	1024X768-85 (69K)	-87.8	-16.5	-96.4	0.68	155.3	1.25	85.6	215.7	85.5
1792E/SE	640X480-60 (31K)	-83.7	-12.32	-92.39	0.67	95.42	1.15	168.4	214.5	168.6
	800X600-50 (53K)	-83.7	-12.48	-92.41	0.68	135.6	1.20	128.5	214.3	128.7
	1280X1024-85 (92K)	-83.5	-12.80	-92.18	0.68	149.2	1.20	38.81	213.8	39.08

	TR	Q	Q404 (C337)		Q405 (F488)			Q414 (C945)		
MODEL	PIN MODE	E	С	В	E	С	В	E	С	В
1769E/SE	640X480-60 (31K)	GND	11.54	-1.63	2.70	-14.8	2.09	GND	2.40	0.10
	640X480-85 (43K)	GND	10.84	-1.87	2.70	-14.6	2.09	GND	2.30	0.11
	1024X768-85 (69K)	GND	9.55	-2.09	2.71	-14.0	2.09	GND	2.19	0.11
1792E/SE	640X480-60 (31K)	GND	4.75	-1.70	2.66	-10.84	2.04	GND	4.24	0
	800X600-50 (53K)	GND	8.13	-2.07	2.66	-10.60	2.04	GND	4.01	0
-	1280X1024-85 (92K)	GND	4.92	-2.20	2.66	-10.13	2.04	GND	3.91	0

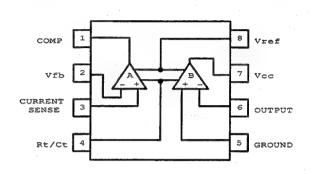
	TR	Q4	Q415 (BF488)		Q420 (C945)			Q421 (A733)		
MODEL	MODE	Ε	C	В	E	С	В	Ε	С	В
1769E/SE	640X480-60 (31K)	12.0	-179.7	12.0	GND	4.28	0.29	4.36	0.29	4.28
	640X480-85 (43K)	12.0	-179.7	12.0	GND	4.36	0.29	4.46	0.29	4.36
	1024X768-85 (69K)	12.0	-175.0	12.0	GND	4.54	0.29	4.70	0.29	4.54
1792E/SE	640X480-60 (31K)	12.03	-95.0	11.47	GND	4.26	0.20	4.33	0.20	4.26
	800X600-50 (53K)	12.03	-92.5	11.49	GND	4.42	0.21	4.54	0.21	4.42
	1280X1024-85 (92K)	12.03	-87.0	11.53	GND	4.73	0.21	4.93	0.21	4.73

### 8.0 IC CONFIGURATION

### (1) 3842,3843 (IC101,IC303)

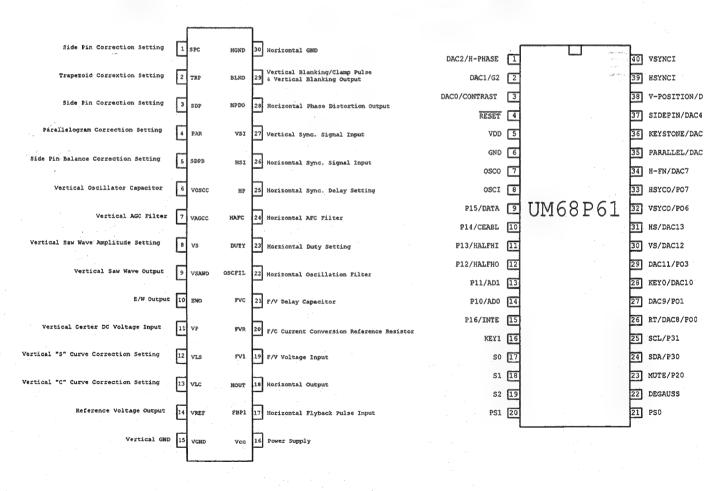


### (2) LM358,2903D (IC302,IC304)

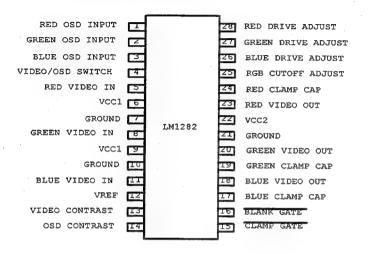


### (3) UPC1883 (IC301)

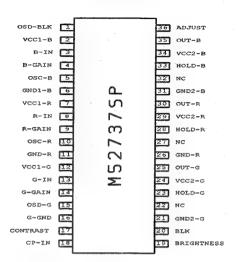
### (4) UM68P61 (IC501)



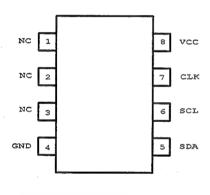
### (5) LM1282 (IC601) for 1769



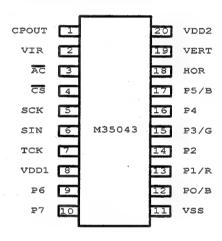
### M52737SP (IC601) for 1792



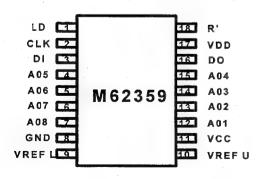
### (6) 24C21 (IC602)



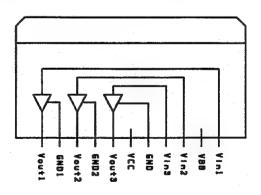
### (7) M35043 (IC603)



### (8) M62359 (IC604)



### (9) LM2405 (IC605)



### 9.0 PARTS LIST

### 1769E/SE Parts List

Abbreviations: Capacitors ....... EL: Electrolytic Aluminum, TA: Tantalum, CE: Ceramic

PP: Polypropylene, PEI:Polyster (Inductive),

PEN:Polyster (Non-Inductive)PPS:Serial Poly Propylene, MPE:Polyster Metalized, MPP:Polypropylene Metalized.

Resistors...... CF: Carbon Film, MF:Metal Film, VR: Variable Resistor.

MOF: Metal Oxide Film, POT:Potentiometer

Semiconductor... TR: Transistor, DI: Diode, ZD: Zener Diode, IC: IC.

Remark: •: 1st priority , Recommended Q'ty = (Location Number x3)

⊙: 2nd priority, Recommended Q'ty = (Location Number x2)

!: New parts

Location	Part No.	Description	Location	Part No.	Description
			Q314	14K92-041E	TR MOS FET BSN254
	TRAN	SISTOR	● Q315	14K22-110W	TR MOS FET 630/890
		· · · · · · · · · · · · · · · · · · ·	Q316	14C92-111B	TR NPN 2SC945P/Q
@ Q101	14T92-011E	TR SCR BT169D	● Q317	14K22-110W	TR MOS FET 630/890
Q102	14C92-111B	TR NPN 2SC945P/Q	Q318	14K22-300B	TR MOS FET 2SK2136
Q103	14C92-111B	TR NPN 2SC945P/Q	Q319	14C92-111B	TR NPN 2SC945P/Q
! Q104	14K3P-070SU	TR MOS FET FS10SM-16A	Q320	14C92-111B	TR NPN 2SC945P/Q
Q105	14A92-021B	TR PNP 2SA733P/Q	Q321	14C92-111B	TR NPN 2SC945P/Q
Q106	14C92-111B	TR NPN 2SC945P/Q	Q322	14C92-111B	TR NPN 2SC945P/Q
! Q107	14D26-010B	TR NPN 2SD882P/Q	Q323	14A92-021B	TR PNP 2SA733P/Q
Q108	14C92-111B	TR NPN 2SC945P/Q	Q324	14C92-111B	TR NPN 2SC945P/Q
Q109	14C92-111B	TR NPN 2SC945P/Q	• Q332	14C92-111B	TR NPN 2SC945P/Q
Q110	14B92-011P	TR PNP 2SB562	● Q333	14A92-021B	TR PNP 2SA733P/Q
Q111	14C92-111B	TR NPN 2SC945P/Q	• Q338	14K22-210AU	TR MOS FET FS5KM-9
Q146	14K3P-070SU	TR MOS FET FS10SM-16A	Q339	14C92-111B	TR NPN 2SC945P/Q
Q208	14C92-111B	TR NPN 2SC945P/Q	Q340	14C92-111B	TR NPN 2SC945P/Q
Q302	14A92-021B	TR PNP 2SA733P/Q	Q341	14C92-111B	TR NPN 2SC945P/Q
Q303	14C92-111B	TR NPN 2SC945P/Q	Q342	14A92-021B	TR PNP 2SA733P/Q
Q304	14A92-021B	TR PNP 2SA733P/Q	Q401	14C92-201E	TR NPN BF483
Q305	14C92-311E	TR NPN JC337-25	⊙ Q401	14C92-201E	TR NPN BF483
Q305	14C92-311E	TR NPN JC337-25	⊚ Q402	14C92-201E	TR NPN BF483
Q306	14J22-020B	TR MOS FET 2SJ449	Q402	14C92-201E	TR NPN BF483
! Q306	14J22-020B	TR MOS FET 2SJ449	! Q403	14C3P-220C	TR NPN 2SC5296
Q307	14C92-111B	TR NPN 2SC945P/Q	! Q404	14C92-311E	TR NPN JC337-25
Q308	14A92-021B	TR PNP 2SA733P/Q	Q404	14C92-311E	TR NPN JC337-25
Q309	14A92-021B	TR PNP 2SA733P/Q	Q405	14A92-141E	TR PNP BF488
Q310	14A92-021B	TR PNP 2SA733P/Q	Q414	14C92-111B	TR NPN 2SC945P/Q
Q311	14C92-111B	TR NPN 2SC945P/Q	Q415	14A92-141E	TR PNP BF488
Q312	14C92-111B	TR NPN 2SC945P/Q	Q420	14C92-111B	TR NPN 2SC945P/Q
● Q313	14C3P-230C	TR NPN 2SC4924 (HIGH)	Q421	14A92-021B	TR PNP 2SA733P/Q

Location	Part No.	Description	Location	Part No.	Description
⊙ ! Q501	14A92-021B	TR PNP 2SA733P/Q	D122	15S11M001F	DI SW 0.5A 50V 1N4148
Q502	14C92-111B	TR NPN 2SC945P/Q	D203	15S11M001F	DI SW 0.5A 50V 1N4148
Q503	14A92-021B	TR PNP 2SA733P/Q	D204	15S61M201F	DI RECTIFIER 1A 50V
Q504	14A92-021B	TR PNP 2SA733P/Q	D205	15S11M001F	DI SW 0.5A 50V 1N4148
Q505	14C92-111B	TR NPN 2SC945P/Q	D301	15S11M001F	DI SW 0.5A 50V 1N4148
! Q506	14C92-311E	TR NPN JC337-25	D302	15S11M001F	DI SW 0.5A 50V 1N4148
Q506	14C92-311E	TR NPN JC337-25	D303	15S11M001F	DI SW 0.5A 50V 1N4148
Q507	14C92-111B	TR NPN 2SC945P/Q	D304	15S11M001F	DI SW 0.5A 50V 1N4148
Q508	14A92-021B	TR PNP 2SA733P/Q	⊙ D306	15S33T201F	DI MD SW 1A 200V
⊚ Q510	14A92-151E	TR PNP JC327-25	⊙ D307	15S33T201F	DI MD SW 1A 200V
Q511	14A92-021B	TR PNP 2SA733P/Q	D308	15S11M001F	DI SW 0.5A 50V 1N4148
Q513	14C92-111B	TR NPN 2SC945P/Q	D309	15S11M001F	DI SW 0.5A 50V 1N4148
Q514	14C92-111B	TR NPN 2SC945P/Q	D310	15S47T201F	DI HI SW 1A 600V
Q619	14C92-111B	TR NPN 2SC945P/Q	D311	15S11M001F	DI SW 0.5A 50V 1N4148
Q620	14A92-061V	TR PNP HBF423	D312	15S11M001F	DI SW 0.5A 50V 1N4148
● Q621	14C92-011V	TR NPN HBF422	D313	15S11M001F	DI SW 0.5A 50V 1N4148
• Q622	14A92-061V	TR PNP HBF423	D314	15S33T201F	DI MD SW 1A 200V
Q623	14C92-011V	TR NPN HBF422	D315	15S33T201F	DI MD SW 1A 200V
● Q624	14A92-061V	TR PNP HBF423	D316	15S3C-702F	DI MD SW 5A 1500V
Q625	14C92-011V	TR NPN HBF422	D317	15B40T2011	DI HI SW 1A 50V
Q627	14C92-111B	TR NPN 2SC945P/Q	D317	15S65M201F	
Q628	14C92-111B	TR NPN 2SC945P/Q	D319	15S65M201F	DI RECTIFIER 1A 400V DI RECTIFIER 1A 400V
Q629	14C92-111B	TR NPN 2SC945P/Q	D319		•
4020	14002-1715	11(14-14-200343F/Q	D320	15S65M201F	DI RECTIFIER 1A 400V
	Die	ODES	1	15S11M001F	DI SW 0.5A 50V 1N4148
			D322	15S11M001F	DI SW 0.5A 50V 1N4148
D101	15S49T200F	DI HI SW 1A 1000V	D402	15S35T201F	DI MD SW 1A 400V
D102	15S49T200F	DI HI SW 1A 1000V	D403	15S47T201F	DI HI SW 1A 600V
D103	15S11M001F	DI SW 0.5A 50V 1N4148	D404	15S35T201F	DI MD SW 1A 400V
D104	15S33T201F	DI MD SW 1A 200V	D405	15S11M001F	DI SW 0.5A 50V 1N4148
⊙ D105	15S11M001F	DI SW 0.5A 50V 1N4148	! D406	15B40T2011	DI HI SW 1A 50V
⊙ D106	15S43T601T	DI HI SW 3A 200V	D408	15S11M001F	DI SW 0.5A 50V 1N4148
D107	15S11M001F	DI SW 0.5A 50V 1N4148	D409	15S11M001F	DI SW 0.5A 50V 1N4148
• D108	15S49TK00F	DI HI SW 2.3A 1000V	D410	15S35T201F	DI MD SW 1A 400V
D108*2	46R00-0220	CORE RF BRH	D411	15S35T201F	DI MD SW 1A 400V
●D109	15S47TK00F	DI HI SW 2.3A 600V	D418	15S11M001F	DI SW 0.5A 50V 1N4148
●D110	15S47TK00F	DI HI SW 2.3A 600V	D419	15S35T201F	DI MD SW 1A 400V
D111	15S65M201F	DI RECTIFIER 1A 400V	D422	15S39T201F	DI MD SW 1A 1000V
⊙ D112	15B6J-6010	DI HI SW 3A 60V	D423	15S11M001F	DI SW 0.5A 50V 1N4148
D113	15S11M001F	DI SW 0.5A 50V 1N4148	D426	15S11M001F	DI SW 0.5A 50V 1N4148
D114	15S11M001F	DI SW 0.5A 50V 1N4148	D501	15S11M001F	DI SW 0.5A 50V 1N4148
• D117	15S49TK00F	DI HI SW 2.3A 1000V	D502	15S11M001F	DI SW 0.5A 50V 1N4148
D117*2	46R00-0220	CORE RF BRH	D503	15S11M001F	DI SW 0.5A 50V 1N4148
D117 2	15S11M001F		D504	15S11M001F	DI SW 0.5A 50V 1N4148
D120	15S11M001F	DI SW 0.5A 50V 1N4148	! D601	15S43M001F	DI HI SW 0.5A 200V
D120	15B40T2011	DI SW 0.5A 50V 1N4148	! D602	15S43M001F	DI HI SW 0.5A 200V
0121	1304012011	DI HI SW 1A 50V	D603	15S43M001F	DI HI SW 0.5A 200V

Location	Part No.	Description	Location	Part No.	Description
! D604	15S43M001F	DI HI SW 0.5A 200V	R121	22215-271M	CF 270R 5% 1/8W
D605	15S43M001F	DI HI SW 0.5A 200V	⊙ R124	23755-8234	MOF 82K 5% 2W
D606	15S43M001F	DI HI SW 0.5A 200V	R125	22215-471M	CF 470R 5% 1/8W
D610	15S11M001F	DI SW 0.5A 50V 1N4148	● R126	23755-2284	MOF 0.22R 5% 2W
D611	15S11M001F	DI SW 0.5A 50V 1N4148	R127	22215-472M	CF 4K7 5% 1/8W
D612	15S11M001F	DI SW 0.5A 50V 1N4148	R128	22215-473M	CF 47K 5% 1/8W
D613	15S11M001F	DI SW 0.5A 50V 1N4148	R129	22225-681M	CF 680R 5% 1/4W
			R130	22215-473M	CF 47K 5% 1/8W
	ZENEF	RDIODES	R131	22215-242M	CF 2K4 5% 1/8W
			R132	22215-272M	CF 2K7 5% 1/8W
ZD101	15Z33M1800P	ZD 18V 5% 0.5W	R133	22215-102M	CF 1K 5% 1/8W
ZD102	15Z33M6290P	ZD 6.2V 5% 0.5W	R134	22225-221M	CF 220R 5% 1/4W
ZD103	15Z33M1600H	ZD 16-2V 5% 0.5W	R136	22225-333M	CF 33K 5% 1/4W
ZD105	15Z33M3600P	ZD 36V 5% 0.5W	R137	22215-103M	CF 10K 5% 1/8W
ZD106	15Z33M3600P	ZD 36V 5% 0.5W	R138	22215-472M	CF 4K7 5% 1/8W
ZD108	15Z33M1200P	ZD 12V 5% 0.5W	R139	22225-100M	CF 10R 5% 1/4W
ZD301	15Z33M2490P	ZD 2.4V 5% 0.5W	R140	22215-473M	CF 47K 5% 1/8W
ZD302	15Z33M9190P	ZD 9.1V 5% 0.5W	R143	22245-4741	CF 470K 5% 1/2W
ZD303	15Z33M1200P	ZD 12V 5% 0.5W	R144	22245-2231	CF 22K 5% 1/2W
ZD304	15Z33M1200P	ZD 12V 5% 0.5W	R146	22225-103M	CF 10K 5% 1/4W
ZD402	15Z33M1200P	ZD 12V 5% 0.5W	R147	22215-271M	CF 270R 5% 1/8W
ZD403	15Z33M5190H	ZD 5.1V 5% 0.5W	R148	22215-472M	CF 4K7 5% 1/8W
ZD405	15Z33M1200P	ZD 12V 5% 0.5W	R149	22215-223M	CF 22K 5% 1/8W
ZD501	15Z33M3990P	ZD 3.9V 5% 0.5W	R151	22215-225M	CF 100K 5% 1/8W
ZD503	15Z33M5190H	ZD 5.1V 5% 0.5W	R154	22215-182M	CF 1K8 5% 1/8W
			R201	22215-102M	CF 3K3 5% 1/8W
	RESI	STORS	R202	22215-352M 22215-152M	CF 1K5 5% 1/8W
1	· · · · · · · · · · · · · · · · · · ·		R203	22215-683M	CF 68K 5% 1/8W
R101	22245-4741	CF 470K 5% 1/2W	R207	22225-109M	CF 1R 5% 1/4W
R102	23245-3034	MOF 30K 5% 1W	R208	23245-3914	
R103	24765-3031	CEMENT 30K 5% 5W	1		MOF 390R 5% 1W
R104	24765-1021	CEMENT 1K 5% 5W	R215	22215-223M	CF 22K 5% 1/8W
R105	23225-109M	MOF 1R 5% 1/4W	R217	23A11S052M	MF 953R 1% 1/8W
R106	22225-152M	CF 1K5 5% 1/4W	R219	22215-472M	CF 4K7 5% 1/8W
R107	22225-101M	CF 100R 5% 1/4W	R220	22215-473M	CF 47K 5% 1/8W
R108	22225-680M	CF 68R 5% 1/4W	R223	22225-152M	CF 1K5 5% 1/4W
R109	22215-472M	CF 4K7 5% 1/8W	R226	23245-1094	MOF 1R 5% 1W
R110	22215-471M	CF 470R 5% 1/8W	R227	22215-332M	CF 3K3 5% 1/8W
R111	22215-103M	CF 10K 5% 1/8W	R231	23A11-272M	MF 2K7 1% 1/8W
R112	22245-6831	CF 68K 5% 1/2W	R233	22215-202M	CF 2K 5% 1/8W
R113	23A11S055M	MF 988R 1% 1/8W	R234	22215-222M	CF 2K2 5% 1/8W
R114	22225-163M	CF 16K 5% 1/4W	R297	22215-562M	CF 5K6 5% 1/8W
R115	22215-103M	CF 10K 5% 1/8W	R301	22225-102M	CF 1K 5% 1/4W
R117	22215-103M	CF 22K 5% 1/8W	R302	22215-103M	CF 10K 5% 1/8W
R119	22215-472M	CF 4K7 5% 1/8W	R303	22215-562M	CF 5K6 5% 1/8W
R120	22215-121M	CF 120R 5% 1/8W	R304	22215-102M	CF 1K 5% 1/8W
	10-12 IIVI	O. 12010 070 17044	R305	22215-103M	CF 10K 5% 1/8W

9.0 PARTS LIST <u>1769E/SE.1792E/SE</u>

Location	Part No.	Description	Location	Part No.	Description
R306	22215-153M	CF 15K 5% 1/8W	R354	22215-152M	CF 1K5 5% 1/8W
R307	22215-163M	CF 16K 5% 1/8W	R355	22215-512M	CF 5K1 5% 1/8W
R308	22215-512M	CF 5K1 5% 1/8W	R356	22215-123M	CF 12K 5% 1/8W
R309	22215-913M	CF 91K 5% 1/8W	R357	22215-474M	CF 470K 5% 1/8W
R310	22215-153M	CF 15K 5% 1/8W	R358	22215-103M	CF 10K 5% 1/8W
R311	22215-133M	CF 13K 5% 1/8W	R359	22215-562M	CF 5K6 5% 1/8W
R312	22215-123M	CF 12K 5% 1/8W	R360	22215-102M	CF 1K 5% 1/8W
R313	22215-222M	CF 2K2 5% 1/8W	R361	22215-100M	CF 10R 5% 1/8W
R314	22215-333M	CF 33K 5% 1/8W	R362	23225-109M	MOF 1R 5% 1/4W
R315	22215-123M	CF 12K 5% 1/8W	R363	22215-472M	CF 4K7 5% 1/8W
R316	22215-472M	CF 4K7 5% 1/8W	R364	22215-221M	CF 220R 5% 1/8W
R317	22215-203M	CF 20K 5% 1/8W	R365	23765-1805	MOF 18R 5% 3W
R318	22225-124M	CF 120K 5% 1/4W	R366	23225-109M	MOF 1R 5% 1/4W
R319	23755-1014	MOF 100R 5% 2W	R367	23225-109M	MOF 1R 5% 1/4W
R320	22215-222M	CF 2K2 5% 1/8W	R368	22245-2201	CF 22R 5% 1/2W
R321	22215-473M	CF 47K 5% 1/8W	R369	23765-2295	MOF 2R2 5% 3W
R322	22215-102M	CF 1K 5% 1/8W	R370	22225-103M	CF 10K 5% 1/4W
R323	23245-1094	MOF 1R 5% 1W	R371	23765-6815	MOF 680R 5% 3W
R324	22215-153M	CF 15K 5% 1/8W	R372	22215-470M	CF 47R 5% 1/8W
	23A11S051M	MF 11K8 1% 1/8W	R373	22215-153M	CF 15K 5% 1/8W
R325			R374	22215-103M	CF 10K 5% 1/8W
R326	22215-473M	CF 47K 5% 1/8W			CF 10K 5% 1/8W
R328	22215-562M	CF 5K6 5% 1/8W	R375	22215-103M	
R329	22215-102M	CF 1K 5% 1/8W	R376	22215-223M	CF 22K 5% 1/8W
R330	22215-623M	CF 62K 5% 1/8W	R377	22215-153M	CF 15K 5% 1/8W
R331	23A11-722M	MF 7K2 1% 1/8W	R378	22215-223M	CF 22K 5% 1/8W
R333	22215-104M	CF 100K 5% 1/8W	R379	22215-153M	CF 15K 5% 1/8W
R334	22215-105M	CF 1M 5% 1/8W	R380	22215-223M	CF 22K 5% 1/8W
R335	22215-273M	CF 27K 5% 1/8W	R381	22215-272M	CF 2K7 5% 1/8W
R336	22215-223M	CF 22K 5% 1/8W	R382	22215-153M	CF 15K 5% 1/8W
R337	22215-224M	CF 220K 5% 1/8W	R383	22215-103M	CF 10K 5% 1/8W
R338	22215-822M	CF 8K2 5% 1/8W	R384	22215-472M	CF 4K7 5% 1/8W
R339	22215-562M	CF 5K6 5% 1/8W	R385	22215-103M	CF 10K 5% 1/8W
R340	22215-473M	CF 47K 5% 1/8W	R386	22215-391M	CF 390R 5% 1/8W
R341	22215-473M	CF 47K 5% 1/8W	R388	23245-6804	MOF 68R 5% 1W
R342	22215-153M	CF 15K 5% 1/8W	R401	23755-3304	MOF 33R 5% 2W
R343	22215-224M	CF 220K 5% 1/8W	R402	22245-3341	CF 330K 5% 1/2W
R344	22215-223M	CF 22K 5% 1/8W	R403	22215-122M	CF 1K2 5% 1/8W
R345	22215-223M	CF 22K 5% 1/8W	R403	22215-222M	CF 2K2 5% 1/8W
R346	22215-224M	CF 220K 5% 1/8W	R404	22215-683M	CF 68K 5% 1/8W
R347	22245-2211	CF 220R 5% 1/2W	R405	22215-822M	CF 8K2 5% 1/8W
R348	22215-272M	CF 2K7 5% 1/8W	R406	22215-821M	CF 820R 5% 1/8W
R349	23225-109M	MOF 1R 5% 1/4W	R407	22215-222M	CF 2K2 5% 1/8W
R350	22215-103M	CF 10K 5% 1/8W	R408	22225-561M	CF 560R 5% 1/4W
R351	22215-222M	CF 2K2 5% 1/8W	R409	23765-3395	MOF 3R3 5% 3W
R352	22215-473M	CF 47K 5% 1/8W	R410	22245-2201	CF 22R 5% 1/2W
	F		R411	23755-1514	MOF 150R 5% 2W

Location	Part No.	Description	Location	Part No.	Description
R412	22215-153M	CF 15K 5% 1/8W	R502	22215-472M	CF 4K7 5% 1/8W
R413	22245-1031	CF 10K 5% 1/2W	R503	22215-153M	CF 15K 5% 1/8W
⊙ R425	23225-688M	MOF 0.68R 5% 1/4W	R504	22215-103M	CF 10K 5% 1/8W
R429	22215-103M	CF 10K 5% 1/8W	R505	22225-102M	CF 1K 5% 1/4W
R430	22215-224M	CF 220K 5% 1/8W	R506	22215-102M	CF 1K 5% 1/8W
R431	22215-105M	CF 1M 5% 1/8W	R507	22225-471M	CF 470R 5% 1/4W
R436	23225-109M	MOF 1R 5% 1/4W	R508	22225-472M	CF 4K7 5% 1/4W
R437	22225-394M	CF 390K 5% 1/4W	R509	22225-472M	CF 4K7 5% 1/4W
R439	22215-103M	CF 10K 5% 1/8W	R510	22225-472M	CF 4K7 5% 1/4W
R440	22225-103M	CF 10K 5% 1/4W	R511	22225-432M	CF 4K3 5% 1/4W
R441	22215-103M	CF 10K 5% 1/8W	R512	22215-271M	CF 270R 5% 1/8W
R448	22225-104M	CF 100K 5% 1/4W	R513	22225-102M	CF 1K 5% 1/4W
R450	22215-682M	CF 6K8 5% 1/8W	R514	22225-102M	CF 1K 5% 1/4W
R451	23225-109M	MOF 1R 5% 1/4W	R515	22215-122M	CF 1K2 5% 1/8W
R452	22225-510M	CF 51R 5% 1/4W	R516	22215-122M	CF 1K2 5% 1/8W
● R453	23225-109M	MOF 1R 5% 1/4W	R517	22215-102M	CF 1K 5% 1/8W
R455	22215-103M	CF 10K 5% 1/8W	R518	22215-472M	CF 4K7 5% 1/8W
R457	23A11-183M	MF 18K 1% 1/8W	R519	22215-472M	CF 4K7 5% 1/8W
R458	23A11-133M	MF 13K 1% 1/8W	R520	22215-472M	CF 4K7 5% 1/8W
R459	23A11-822M	MF 8K2 1% 1/8W	R521	22215-472M	2.44
R464	22215-303M	CF 30K 5% 1/8W	R522	22215-472M	CF 4K7 5% 1/8W
R465	22215-103M	CF 10K 5% 1/8W	R523		CF 4K7 5% 1/8W
R466	22225-510M	CF 51R 5% 1/4W		22215-472M	CF 4K7 5% 1/8W
R467	22215-563M	CF 56K 5% 1/8W	R524	22215-472M	CF 4K7 5% 1/8W
R468	22215-303M		R525	22215-472M	CF 4K7 5% 1/8W
		CF 10K 5% 1/8W	R526	22215-472M	CF 4K7 5% 1/8W
R469	22215-105M	CF 1M 5% 1/8W	R527	22215-102M	CF 1K 5% 1/8W
R471	23A11-823M	MF 82K 1% 1/8W	R528	22225-100M	CF 10R 5% 1/4W
R472	22215-683M	CF 68K 5% 1/8W	R529	22215-243M	CF 24K 5% 1/8W
R473	22215-182M	CF 1K8 5% 1/8W	R530	22215-103M	CF 10K 5% 1/8W
R474	22245-3331	CF 33K 5% 1/2W	R531	22215-102M	CF 1K 5% 1/8W
R475	22225-105M	CF 1M 5% 1/4W	R532	22215-473M	CF 47K 5% 1/8W
R476	22225-105M	CF 1M 5% 1/4W	R533	22215-822M	CF 8K2 5% 1/8W
R477	22225-105M	CF 1M 5% 1/4W	R534	22215-473M	CF 47K 5% 1/8W
R478	22225-681M	CF 680R 5% 1/4W	R535	22215-471M	CF 470R 5% 1/8W
R480	22245-6231	CF 62K 5% 1/2W	R536	22215-472M	CF 4K7 5% 1/8W
R481	22215-184M	CF 180K 5% 1/8W	R537	22225-272M	CF 2K7 5% 1/4W
R483	22215-103M	CF 10K 5% 1/8W	R538	22225-101M	CF 100R 5% 1/4W
R484	22225-243M	CF 24K 5% 1/4W	R539	22215-562M	CF 5K6 5% 1/8W
R485	22225-913M	CF 91K 5% 1/4W	R540	22215-102M	CF 1K 5% 1/8W
R486	22225-102M	CF 1K 5% 1/4W	R542	22215-271M	CF 270R 5% 1/8W
R487	22225-334M	CF 330K 5% 1/4W	R555	23225-109M	MOF 1R 5% 1/4W
R490	22215-102M	CF 1K 5% 1/8W	R600	22215-102M	CF 1K 5% 1/8W
R492	22215-102M	CF 1K 5% 1/8W	R601	22215-101M	CF 100R 5% 1/8W
R496	22215-151M	CF 150R 5% 1/8W	R602	22215-470M	CF 47R 5% 1/8W
R497	22225-332M	CF 3K3 5% 1/4W	R603	22215-750M	CF 75R 5% 1/8W
R501	22215-472M	CF 4K7 5% 1/8W	R604	22215-101M	CF 100R 5% 1/8W

Location	Part No.	Description	Location	Part No.	Description
R605	22215-470M	CF 47R 5% 1/8W	R678	22245-4701	CF 47R 5% 1/2W
R606	22215-750M	CF 75R 5% 1/8W	R679	22215-224M	CF 220K 5% 1/8W
R607	22215-101M	CF 100R 5% 1/8W	R680	22245-4701	CF 47R 5% 1/2W
R609	22215-470M	CF 47R 5% 1/8W	R681	22215-224M	CF 220K 5% 1/8W
R610	22215-750M	CF 75R 5% 1/8W	R682	22245-4701	CF 47R 5% 1/2W
R611	22215-101M	CF 100R 5% 1/8W	R683	22245-1041	CF 100K 5% 1/2W
R612	22215-330M	CF 33R 5% 1/8W	R690	22215-242M	CF 2K4 5% 1/8W
R613	22215-123M	CF 12K 5% 1/8W	R691	22215-473M	CF 47K 5% 1/8W
R615	22215-202M	CF 2K 5% 1/8W	R692	22215-473M	CF 47K 5% 1/8W
R616	22215-102M	CF 1K 5% 1/8W	R693	22215-473M	CF 47K 5% 1/8W
R617	22215-391M	CF 390R 5% 1/8W	R694	22215-103M	CF 10K 5% 1/8W
R618	22215-391M	CF 390R 5% 1/8W	R695	22215-331M	CF 330R 5% 1/8W
R619	22215-391M	CF 390R 5% 1/8W	R696	22215-101M	CF 100R 5% 1/8W
R620	22215-202M	CF 2K 5% 1/8W	R697	22215-101M	CF 100R 5% 1/8W
R621	22215-750M	CF 75R 5% 1/8W	R698	22215-101M	CF 100R 5% 1/8W
R622	22215-163M	CF 16K 5% 1/8W	R699	22215-101M	CF 100R 5% 1/8W
R627	22215-101M	CF 100R 5% 1/8W	R701	22225-242M	CF 2K4 5% 1/4W
R628	22215-330M	CF 33R 5% 1/8W	R702	23A11-433M	MF 43K 1% 1/8W
R631	22215-750M	CF 75R 5% 1/8W	R705	22215-332M	CF 3K3 5% 1/8W
R632	22215-750M	CF 75R 5% 1/8W	R708	22225-100M	CF 10R 5% 1/4W
R637	22215-101M	CF 100R 5% 1/8W	R901	23A11S032M	MF 19K2 1% 1/8W
R648	22215-101M	CF 100R 5% 1/8W	R902	23A11S032M	MF 19K2 1% 1/8W
R654	22215-152M	CF 1K5 5% 1/8W	R903	23A11-123M	MF 12K 1% 1/8W
R655	22215-202M	CF 2K 5% 1/8W	R904	23A11-123M	MF 12K 1% 1/8W
R656	22215-332M	CF 3K3 5% 1/8W	R905	23A11S010M	MF 5K23 1% 1/8W
R657	22215-224M	CF 220K 5% 1/8W	R906	23A11S010M	MF 5K23 1% 1/8W
R658	22215-224M	CF 220K 5% 1/8W			
R659	22215-224M	CF 220K 5% 1/8W		VARIABLI	E RESISTOR
R660	22215-224M	CF 220K 5% 1/8W			
R661	22215-224M	CF 220K 5% 1/8W	VR101	25B20-502B	POT 5KB 0.1W
R662	22215-224M	CF 220K 5% 1/8W	VR102	25B20-102B	POT 1KB 0.1W
R663	22215-223M	CF 22K 5% 1/8W	VR301	25AA0-103B	POT 10KB 0.1W
R664	22215-223M	CF 22K 5% 1/8W	VR302	25B20-102B	POT 1KB 0.1W
R665	22215-223M	CF 22K 5% 1/8W	VR303	25AA0-103B	POT 10KB 0.1W
R666	22215-102M	CF 1K 5% 1/8W	VR403	25B20-203B	POT 20KB 0.1W
R667	22215-152M	CF 1K5.5% 1/8W			
R668	22215-102M	CF 1K 5% 1/8W	-	CAP	ACITOR
R669	22215-102IVI 22215-332M	CF 3K3 5% 1/8W		1	1
	22215-332IVI 22215-102M	CF 1K 5% 1/8W	C101	42A77-474F	SAFETY 0.47U 20%
R670			C102	42D77-2224	SAFETY 2200P 20%
R671	22215-103M	CF 10K 5% 1/8W	C103	42D77-2224	SAFETY 2200P 20%
R672	22215-332M	CF 3K3 5% 1/8W	C104	28CD7-2217	EL 220U 20% 400V
R673	22215-332M	CF 3K3 5% 1/8W	C105	34175-1034	MPE 0.01U 5% 630V
R674	22215-332M	CF 3K3 5% 1/8W	C106	34175-1034	MPE 0.01U 5% 630V
R675	23245-6884	MOF 0.68R 5% 1W	C108	28A47-4711	EL 470U 20% 25V
R676	22245-4701	CF 47R 5% 1/2W	C111	28H47-101R	EL 100U 20% 25V
R677	22215-224M	CF 220K 5% 1/8W	1		

Location	Part No.	Description	Location	Part No.	Description
C112	39546-221R	CE 220P 10% 1KV	C240	39146-102R	CE 1000P 10% 50V
C113	39146-332R	CE 3300F 10% 50V	C241	39B87C104R	ML 0.1U 20% 50V
C114	39B87C104R	ML 0.1U 20% 50V	C247	39146-471R	CE 470P 10% 50V
C115	28H47-101R	EL 100U 20% 25V	C271	39B87C104R	ML 0.1U 20% 50V
C116	31115-332R	PEI 3300P 5% 50V	C301	39B87C104R	ML 0.1U 20% 50V
C117	39146-102R	CE 1000P 10% 50V	C302	39B87C104R	ML 0.1U 20% 50V
C118	31115-102R	PEI 1000P 5% 50V	C303	39B87C104R	ML 0.1U 20% 50V
C119	283A7-1015	EL 100U 20% 200V	C304	346B5-334R	MPE 0.33U 5% 63V
C120	39446-1038	CE 0.01U 10% 500V	C305	28H37-470R	EL 47U 20% 16V
C121	28A97-1011	EL 100U 20% 100V	C306	39B87C104R	ML 0.1U 20% 50V
C122	39546-470R	CE 47P 10% 1KV Y5P	C307	39B87C104R	ML 0.1U 20% 50V
C123	28A47-4711	EL 470U 20% 25V	C308	28H67-100R	EL 10U 20% 50V
C125	28A37-1021	EL 1000U 20% 16V	C309	28H67-100R	EL 10U 20% 50V
C126	39546-470R	CE 47P 10% 1KV Y5P	C310	28H67-100R	EL 10U 20% 50V
C128	28H37-1021	EL 1000U 20% 16V	C311	38115-101R	CE 100P 5% 50V NPO
C129	28H37-331R	EL 330U 20% 16V	C312	39B87C104R	ML 0.1U 20% 50V
C130	28H37-470R	EL 47U 20% 16V	C313	39B87C104R	ML 0.1U 20% 50V
C131	28A97-1011	EL 100U 20% 100V	C314	28H67-229R	EL 2U2 20% 50V
0132	28A47-4711	EL 470U 20% 25V	C315	28H67-109R	EL 1U 20% 50V
C133	42D77-4725	SAFETY 4700P 20%	C316	39B87C104R	ML 0.1U 20% 50V
2135	39B87C104R	ML 0.1U 20% 50V	C317	39446-471R	
2136	39B87C104R	ML 0.1U 20% 50V			CE 470P 10% 500V
C137	28HB7-4701		C318	34145-1044	MPE 0.1U 5% 250V
i		EL 47U 20% 250V	C319	28H37-471R	EL 470U 20% 16V
0138	28A47-4711	EL 470U 20% 25V	C320	39B87C104R	ML 0.1U 20% 50V
C139	38115-101R	CE 100P 5% 50V NPO	C321	39B87C104R	ML 0.1U 20% 50V
C140	28A47-151R	EL 150U 20% 25V	C322	28H67-100R	EL 10U 20% 50V
0141	28H37-331R	EL 330U 20% 16V	C323	39B87C104R	ML 0.1U 20% 50V
0142	28H37-101R	EL 100U 20% 16V	C324	28H47-470R	EL 47U 20% 25V
C151	28H37-101R	EL 100U 20% 16V	C325	28H67-109R	EL 1U 20% 50V
2153	28H37-471R	EL 470U 20% 16V	C326	28HB7-109R	EL 1U 20% 250V
201	39146-681R	CE 680P 10% 50V	C327	39187-103R	CE 0.01U 20% 50V
205	28H47-4711	EL 470U 20% 25V	C328	28H37-471R	EL 470U 20% 16V
206	39B87C104R	ML 0.1U 20% 50V	C329	28H67-109R	EL 1U 20% 50V
2207	346B5-224R	MPE 0.22U 5% 63V	C330	28H67-479R	EL 4U7 20% 50V
208	39B87C104R	ML 0.1U 20% 50V	C331	39446-102R	CE 1000P 10% 500V
215	31115-473R	PEI 0.047U 5% 50V	C332	28H37-470R	EL 47U 20% 16V
218	39B87C104R	ML 0.1U 20% 50V	C333	28H67-479R	EL 4U7 20% 50V
221	39B87C104R	ML 0.1U 20% 50V	C334	39187-103R	CE 0.01U 20% 50V
2222	39146-102R	CE 1000P 10% 50V	C335	28H67-100R	EL 10U 20% 50V
2223	28H67-100R	EL 10U 20% 50V	C337	39B87C104R	ML 0.1U 20% 50V
C224	28H47-4711	EL 470U 20% 25V	C338	39187-103R	CE 0.01U 20% 50V
2225	28H57-101R	EL 100U 20% 35V	с C339	34145-185C	MPE 1U8 5% 250V
234	39B87C104R	ML 0.1U 20% 50V	C340	28HB7-2201	EL 22U 20% 250V
236	28457-479R	EL 4U7 20% 35V	C341	34145-4734	MPE 0.047U 5% 250V
238	39B87C104R	ML 0.1U 20% 50V	C342 <sup>9</sup>	32115-102R	PEN 1000P 5% 50V
239	39B87C104R	ML 0.1U 20% 50V e	C343	ック115-103R	PEN 0.01U 5% 50V

Location	Part No.	Description	Location	Part No.	Description
C344	38115-220R	CE 22P 5% 50V NPO	C448	39446-472R	CE 4700P 10% 500V
C345	375B5-392CH	PPS 3900P 5% 2KV	C455	39187-103R	CE 0.01U 20% 50V
C348	28H97-1011	EL 100U 20% 100V	C456	38596-220R	CE 22P 10% 1KV
C349	39446-102R	CE 1000P 10% 500V	C457	28H67-100R	EL 10U 20% 50V
C350	35155A2746	MPP 0.27U 5% 400V	C460	28H67-109R	EL 1U 20% 50V
C351	39B87C104R	ML 0.1U 20% 50V	C501	28H67-479R	EL 4U7 20% 50V
C353	39446-472R	CE 4700P 10% 500V	C502	28H67-479R	EL 4U7 20% 50V
C354	35155-1046	MPP 0.1U 5% 400V	C503	28H67-479R	EL 4U7 20% 50V
C355	39146-102R	CE 1000P 10% 50V	C504	28H67-100R	EL 10U 20% 50V
C356	35155-2747	MPP 0.27U 5% 400V	C505	38196-330R	CE 33P 10% 50V
C357	39146-102R	CE 1000P 10% 50V	C506	38196-330R	CE 33P 10% 50V
C358	35145-6847	MPP 0.68U 5% 250V	C507	39146-102R	CE 1000P 10% 50V
C359	39146-471R	CE 470P 10% 50V	C508	38115-470R	CE 47P 5% 50V NPO
C360	28H67-220R	EL 22U 20% 50V	C509	28H67-479R	EL 4U7 20% 50V
C362	39146-471R	CE 470P 10% 50V	C510	28H67-479R	EL 4U7 20% 50V
C380	39B87C104R	ML 0.1U 20% 50V	C511	28H67-479R	EL 4U7 20% 50V
C390	28H37-470R	EL 47U 20% 16V	C512	28H67-479R	EL 4U7 20% 50V
C391	39146-331R	CE 330P 10% 50V	C513	28H67-479R	EL 4U7 20% 50V
C392	39B56E332R	ML 3300P 10% 50V	C514	28H67-479R	EL 4U7 20% 50V
C393	39B87C104R	ML 0.1U 20% 50V	C515	28H67-479R	EL 4U7 20% 50V
C394	39B87C104R	ML 0.1U 20% 50V	C516	28H67-479R	EL 4U7 20% 50V
C396	39146-102R	CE 1000P 10% 50V	C517	28H67-479R	EL 4U7 20% 50V
C398	39146-102R	CE 1000P 10% 50V	C518	28H67-479R	EL 4U7 20% 50V
C401	39446-221R	CE 220P 10% 500V	C520	39187-103R	CE 0.01U 20% 50V
C402	34145-1534	MPE 0.015U 5% 250V	C521	28H47-101R	EL 100U 20% 25V
C403	28H67-100R	EL 10U 20% 50V	C522	39B87C104R	ML 0.1U 20% 50V
C404	28467-229R	EL 2U2 20% 50V	C523	28H37-470R	EL 47U 20% 16V
C405	28457-479R	EL 4U7 20% 35V	C524	39187-103R	CE 0.01U 20% 50V
C406	28HB7-2201	EL 22U 20% 250V	C525	31115-102R	PEI 1000P 5% 50V
C407	35145-6847	MPP 0.68U 5% 250V	C526	31115-102R	PEI 1000P 5% 50V
C408	34145-2246	MPE 0.22U 5% 250V	C527	39187-103R	CE 0.01U 20% 50V
C409	39446-471R	CE 470P 10% 500V	C601	38115-470R	CE 47P 5% 50V NPO
C410	375B5-1827H	PPS 1800P 5% 2KV	C602	34115-224R	MPE 0.22U 5% 50V
C411	34125-1043	MPE 0.1U 5% 100V	C603	28H67-100R	EL 10U 20% 50V
C412	28HE7-3391	EL 3U3 20% 450V	C605	34115-224R	MPE 0.22U 5% 50V
C413	39187-103R	CE 0.01U 20% 50V	C606	34115-224R	MPE 0.22U 5% 50V
C414	39146-102R	CE 1000P 10% 50V	C607	39B87C104R	ML 0.1U 20% 50V
C415	39B87C104R	ML 0.1U 20% 50V	C608	28H37-1021	EL 1000U 20% 16V
C438	28H67-100R		1	28H67-100R	EL 10000 20% 10V
C436	28HB7-1001	EL 10U 20% 50V EL 10U 20% 250V	C610 C611	39B87C104R	ML 0.1U 20% 50V
C439 C440	39546-1038	CE 0.01U 10% 1KV		39187-103R	CE 0.01U 20% 50V
C440 C442	28H67-109R		C612	39187-103R 39B87C104R	
		EL 1U 20% 50V	C613		ML 0.1U 20% 50V
C443	39446-1038	CE 0.01U 10% 500V	C615	28H67-100R	EL 10U 20% 50V
C444	28H67-479R	EL 4U7 20% 50V	C616	39B87C104R	ML 0.1U 20% 50V
C445	39146-152R	CE 1500P 10% 50V ?	*C617 .	39187-103R	CE 0.01U 20% 50V
C447	39446-1038	CE 0.01U 10% 500V	C618	28H67-100R	EL 10U 20% 50V

Location	Part No.	Description		Location	Part No.	Description
C619	39B87C104R	ML 0.1U 20% 50V		L103	47E00-0240	XFMR EMI ET-24
C620	28H27-221R	EL 220U 20% 10V		L104	45M1K-4704	COIL CHOKE 47U
C621	39B87C104R	ML 0.1U 20% 50V		L106	45M1K-4704	COIL CHOKE 47U
C622	39B87C104R	ML 0.1U 20% 50V		L107	45M1K-4704	COIL CHOKE 47U
C623	28H67-109R	EL 1U 20% 50V		L108	45M1K-4704	COIL CHOKE 47U
C624	39187-103R	CE 0.01U 20% 50V		L109	45B0K-220T	COIL PEAKING 22U
C625	28H37-470R	EL 47U 20% 16V		L301	46L00-0500L	COIL LINEAR 9.8uH
C626	39187-103R	CE 0.01U 20% 50V		L302	45M1K-4704	COIL CHOKE 47U
C627	39187-103R	CE 0.01U 20% 50V		L303	46N00-0100	COIL LINE CHOKE 5mH
C628	39187-103R	CE 0.01U 20% 50V		L304	46N00-0120	COIL LINE CHOKE 1mH
C629	28H37-471R	EL 470U 20% 16V		L305	46N00-0120	COIL LINE CHOKE 1mH
C630	39E56E103R	ML 0.01U 10% 100V		L401	45M1K-4704	COIL CHOKE 47U
C631	39E56E103R	ML 0.01U 10% 100V		L402	46N00-0510	COIL CHOKE 5mH El-22
C638	39B87C104R	ML 0.1U 20% 50V		L601	45B0K-109M	COIL PEAKING 1U
C640	28H37-470R	EL 47U 20% 16V		L602	45B0K-109M	COIL PEAKING 1U
C647	39146-101R	CE 100P 10% 50V		L603	45B0K-109M	COIL PEAKING 1U
C648	34125-2244	MPE 0.22U 5% 100V		L604	45B0K-109M	COIL PEAKING 1U
C649	34125-2244	MPE 0.22U 5% 100V			46R00-0010	CORE RF BEAD RHW
	34125-2244			L605	45B0K-228M	COIL PEAKING 0.22U
C650		MPE 0.22U 5% 100V		L612		COIL PEAKING 0.22U
C651	39446-472R	CE 4700P 10% 500V		L613	45B0K-228M	
C652	28HB7-109R	EL 1U 20% 250V		L614	45B0K-228M	COIL PEAKING 0.22U
C654	39187-103R	CE 0.01U 20% 50V			TRANS	FORMERS
C656	39187-103R	CE 0.01U 20% 50V			1104110	OTANIETO
C658	39187-103R	CE 0.01U 20% 50V		T101	47S00-0830T	XFMR SPS EE-42/15
C659	39187-103R	CE 0.01U 20% 50V		T301	47P10-0100	XFMR PINCUSHING EI-25
C660	39187-103R	CE 0.01U 20% 50V		T302	47F15-0040	XFMR FBT DUMMY
C661	39446-102R	CE 1000P 10% 500V		T302	47D10-0340L	XFMR DRIVE EI-22
C662	39687-1038	CE 0.01U 20% 2KV		T401	47J00-0070	XFMR FOCUS EI-22
C664	39187-103R	CE 0.01U 20% 50V			47D10-0290L	XFMR DRIVE EI-19
C668	28A97-4701	EL 47U 20% 100V		T402		
C673	39E56E103R	ML 0.01U 10% 100V		T402	47F13-0730M	XFMR FBT
C676	28H27-221R	EL 220U 20% 10V		·		W/FOCUS/SCREEN/CR BLOCK
C680	39B87C104R	ML 0.1U 20% 50V				
C681	39146-472R	CE 4700P 10% 50V		-		
C682	39187-103R	CE 0.01U 20% 50V			*	
C688	38115-470R	CE 47P 5% 50V NPO				
C689	39187-103R	CE 0.01U 20% 50V		- 1		
C690	39146-471R	CE 470P 10% 50V			_	
C691	39187-103R	CE 0.01U 20% 50V				
C693	39146-222R	CE 2200P 10% 50V	-			
C694	39446-471R	CE 470P 10% 500V				
	С	OILS				
L101	45M1K-4704	COIL CHOKE 47U				
L102	47E00-0240	XFMR EMI ET-24				

47

Location	Part No.	Description	
		ITEGRATED CIRCUITS	
● IC101	17A06-150G	IC LINEAR 8P DEFLECTION3842	
! IC102	17A07-171H	IC LINEAR VOTAGE REG. XC62AP5002LH 3P	
IC103	17B21-090B	IC PHOTO OPTOCUPLER PS2561-M/TLP721F-GR	
IC104	17A07-031D	IC LINEAR 3P VOLTAGE REGULATOR 431	
● ! IC201	17A06-290C	IC LINEAR 7P DEFLECTIONLA7840	
● ! IC301	17A06-280B	IC LINEAR 30P DEFLECTION C1883 (ACT)	
IC302	17A11-040H	IC LINEAR O/P AMP LM3588P	
● IC303	17A06-190G	IC LINEAR 8P DEFLECTIONUC3843B	
IC304	17A11-030H	IC LINEAR O/P AMP HA17393/2903 8P	
! IC501	16P40-029F	IC MICRO-PROCESSOR 40P 68P61 MASK ROM	
IC502	16M08-009R	IC EEPROM AT24C04 (B)-10PC (BLANK) 8P	
● IC503	16T14-023R	IC TTL 74LS74 14P	
IC601	17A04-130K	IC LINEAR 28P VIDEO LM1282	
● IC603	16N20-004U	IC CONTROLLER 20P M35045-080SP	•
● IC604	17A23-002H	IC LINEAR DIGITAL/ANALOG 62359P 18P	•
● IC605	17A04-150K	IC LINEAR 11P VIDEO LM2405T	
		MISCELLANEOUS	
	11S31-069A	PCB MAIN-S 330*297*1.6MM 1769E	
	11S33-036A	PCB CRT-S 148*118*1.6MM 1769SE	
•	11S39-027A	PCB LED-S 1765D 24*16.5*1.6MM	
	11S3D-030A	PCB DISPLAY-S 172.5*27*1.6MM 1769E	
•	56Q67-1803	POWER CORD IBMPC VDE 1M8-B 250V10A	
	64C30-0100	SOCKET CRT COLOR-H	
	65\$10-2000	CABLE SIGNAL 15D-11H 3+6 200CM BLACK W/C	
	65W3131610	CONN H WIRE 1007#24 3P 2.5 16L-T	
	8200002000	CLAMP CABLE WC-6R	• -
	859001-401	TAPE STRETCH FLIM W=500MM 1500 M/RL	
**	46G00-0085	COIL ROTATION (300T)	
	46G00-0130	COIL DEGAUSSING (106T)	
	54B11-8206	WIRE BRAID 82CM	
	54C23B1601	WIRE TERMINAL 1015#18 16L BK W/TUBE	
	19D0A-0010	DIODE LED BICOLOR W-DIFFUSED (L-119YGW)	
	20H17-11AB	CRT C27 NG M41KXH100X01-(J)	
CRT YOKE	7906950200	CABLE CLIP (WIRE MOUNTS)	
CRT-FRONT CABINET	6776050220	SCREW PLASTIC TAPPING T5*22	
F/C & R/C	6776040160	SCREW PLASTIC TAPPING T4*16	
• F101	49FB2-0A0A	FUSE SLOW 3.15A 250V (NORDIC)	
FBT	7905716000	FBT CLIPS (HV-1)	
FD601	46R00-0010	CORE RF BEAD RHW	
FD602	46R00-0010	CORE RF BEAD RHW	
FD603	46R00-0010	CORE RF BEAD RHW	
M/B	7906656200	CABLE CLIPS D=11.5 L=50MM (TA11-50)	
		3.22.32.32.33.33.33.33.33.33.33.33.33.33	

Location	Part No.	Description
NTC101	26B00-0061	NTCR 5R 15% 5A
P101	64P2Ö-1010	SOCKET POWER
P104-CRT/B P605	65W81327D0	CONN H/T WIRE 1007#24 8P 2.5 27L-T
P501-CRT/B P604	65WB1334D0	CONN H/T WIRE 1007#24 12P 2.5 34L-T
P608-M/B P402	65W35223B1	CONN H/T WIRE 1015#22 3P 7.5/5 23L-T W/C
P901	65W51317D0	CONN H/T WIRE 1007#24 5P 2.5 17L-T
PTC101	26A00-0080	PTCR 9R 20% 2P
RL101	53R001-008M	RELAY COIL DC12V 5A/250V (2-A)
RL102	53R001-010	RELAY COIL DC5V 40NA/2A(2-C)
RP301	16K05-003Z	IC RES ARRAY 15K*4 5% 1/8W (COMMON P1)
RP302	16K05-003Z	IC RES ARRAY 15K*4 5% 1/8W (COMMON P1)
RP501	16K04-001Z	IC RES ARRAY 10K*3 5% 1/8W (COMMON P1)
RP502	16K09-004Z	IC RES ARRAY 3K3*8 5% 1/8W (COMMON P1)
RP503	16K06-001Z	IC RES ARRAY 3K3*5 5% 1/8W (COMMON P1)
RP504	16K08-001Z	IC RES ARRAY 10K*7 5% 1/8W (COMMONP1)
SG601	42S00-0201	SPARK GAP DSP-201M 200V20%
SG602	42\$00-0201	SPARK GAP DSP-201M 200V20%
SG603	42\$00-0201	SPARK GAP DSP-201M 200V20%
SG604	42800-0301	SPARK GAP DSP-301N 300V30%
SW101	52P12-0030	SWITCH POWER 1P2T 5A250V
SW901	52P11-0050	
· .		
SW902	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW903	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW904	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW905	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW906	52P11-0050	STATION TINESS THE ESSIVE STATES
SW907	52P11-0050	
SW908	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
TP1	65W10Y3610	CONN H WIRE 1015#18 1P(F) 36L
TP2	68D00-0050	ROUND PIN TP D=2.36 L=14.2MM
TP302	65W10Y4211	CONN H WIRE 1015#18 1P (M) 42L
XL501	60R01-0010	RESONATOR 8MHZ
Q104-DRAIN	46R00-0230	CORE RF BRH
IC501 PIN39 AND GND	38115-220R	CE 22P 5% 50V NPO
P604 PIN V AND GND	39B87C333R	ML 0.033U 20% 50V
A-A' (C131 '-' TO C137 '-'	54N23B0700	WIRE LEAD 1015#18 7L BK
BD101	15D68-F000	DI BRIDGE 4A 800V
		1

### 1792E/SE Parts List

Abbreviations: Capacitors ....... EL: Electrolytic Aluminum, TA: Tantalum, CE: Ceramic

PP: Polypropylene, PEI:Polyster (Inductive),

PEN:Polyster (Non-Inductive)PPS:Serial Poly Propylene,

MPE:Polyster Metalized, MPP:Polypropylene Metalized.

Resistors...... CF: Carbon Film, MF:Metal Film, VR: Variable Resistor.

MOF: Metal Oxide Film, POT:Potentiometer

Semiconductor... TR: Transistor, DI: Diode, ZD: Zener Diode, IC: IC.

Remark: •: 1st priority , Recommended Q'ty = (Location Number x3)

2nd priority, Recommended Q'ty = (Location Number x2)

!: New parts

Location	Part No.	Description	Location	Part No.	Description
		Q319	14C92-111B	TR NPN 2SC945P/Q	
	TRAN	ISISTOR	Q320	14C92-111B	TR NPN 2SC945P/Q
			Q321	14C92-111B	TR NPN 2SC945P/Q
9 Q101	14T92-011E	TR SCR BT169D	Q322	14C92-111B	TR NPN 2SC945P/Q
Q102	14C92-111B	TR NPN 2SC945P/Q	Q323	14A92-021B	TR PNP 2SA733P/Q
Q103	14C92-111B	TR NPN 2SC945P/Q	Q324	14C92-111B	TR NPN 2SC945P/Q
Q105	14A92-021B	TR PNP 2SA733P/Q	● Q332	14C92-111B	TR NPN 2SC945P/Q
Q106	14C92-111B	TR NPN 2SC945P/Q	• Q333	14A92-021B	TR PNP 2SA733P/Q
! Q107	14D26-010B	TR NPN 2SD882P/Q	● Q338	14K22-210AU	TR MOS FET FS5KM-9
Q108	14C92-111B	TR NPN 2SC945P/Q	Q339	14C92-111B	TR NPN 2SC945P/Q
Q109	14C92-111B	TR NPN 2SC945P/Q	Q340	14C92-111B	TR NPN 2SC945P/Q
Q110	14B92-011P	TR PNP 2SB562	Q341	14C92-111B	TR NPN 2SC945P/Q
Q111	14C92-111B	TR NPN 2SC945P/Q	Q342	14A92-021B	TR PNP 2SA733P/Q
Q208	14C92-111B	TR NPN 2SC945P/Q	Q343	14K22-300B	TR MOS FET 2SK2136
Q302	14A92-021B	TR PNP 2SA733P/Q	Q344	14C92-111B	TR NPN 2SC945P/Q
Q303	14C92-111B	TR NPN 2SC945P/Q	Q401	14C92-201E	TR NPN BF483
Q304	14A92-021B	TR PNP 2SA733P/Q	© Q402	14C92-201E	TR NPN BF483
Q305	14C92-311E	TR NPN JC337-25	! Q403	14C3P-220C	TR NPN 2SC5296
! Q306	14J22-020B	TR MOS FET 2SJ449	Q404	14C92-311E	TR NPN JC337-25
Q307	14C92-111B	TR NPN 2SC945P/Q	Q405	14A92-141E	TR PNP BF488
Q308	14A92-021B	TR PNP 2SA733P/Q	Q414	14C92-111B	TR NPN 2SC945P/Q
Q309	14A92-021B	TR PNP 2SA733P/Q	Q415	14A92-141E	TR PNP BF488
Q310	14A92-021B	TR PNP 2SA733P/Q	Q420	14C92-111B	TR NPN 2SC945P/Q
Q311	14C92-111B	TR NPN 2SC945P/Q	Q421	14A92-021B	TR PNP 2SA733P/Q
Q312	14C92-111B	TR NPN 2SC945P/Q	⊚ ! Q501	14A92-021B	TR PNP 2SA733P/Q
• Q313	14C3P-230C	TR NPN 2SC4924 (HIGH)	Q502	14C92-111B	TR NPN 2SC945P/Q
Q314	14K92-041E	TR MOS FET BSN254	Q503	14A92-021B	TR PNP 2SA733P/Q
• Q315	14K22-110W	TR MOS FET 630/890	Q504	14A92-021B	TR PNP 2SA733P/Q
Q316	14C92-111B	TR NPN 2SC945P/Q	Q505	14C92-111B	TR NPN 2SC945P/Q
Q318	14K22-300B	TR MOS FET 2SK2136		14002-1110	11/11/11/2005/01/02

Location	Part No.	Description	Location	Part No.	Description
! Q506	14C92-311E	TR NPN JC337-25	D307	15S33T201F	DI MD SW 1A 200V
Q507	14C92-311E	TR NPN 2SC945P/Q	D307	15S3312011 15S11M001F	DI SW 0.5A 50V 1N4148
Q508	14A92-021B	TR PNP 2SA733P/Q	D309	15S11M001F	DI SW 0.5A 50V 1N4148
© Q510	14A92-021B	TR PNP JC327-25	D309	15S47T201F	DI HI SW 1A 600V 30NS
Q510 Q511	14A92-131E	TR PNP 3C327-25 TR PNP 2SA733P/Q	D310 D311	15S47 12011 15S11M001F	DI SW 0.5A 50V 1N4148
Q511 Q513	14A92-021B	TR NPN 2SC945P/Q	D311	15S11M001F	DI SW 0.5A 50V 1N4148
Q513 Q514	14C92-111B	TR NPN 2SC945P/Q	D312	15S11M001F	DI SW 0.5A 50V 1N4148
Q603	14C92-111B	TR NPN 2SC945P/Q	D313	15S33T201F	DI MD SW 1A 200V
			D314	15S33T201F	DI MD SW 1A 200V
Q606	14C92-111B	TR NPN 2SC945P/Q		15S6C-A01F	DI RECTIFIER 10A 1500V
Q620	14A92-061E	TR PNP BF423	D316		
• Q621	14C92-011E	TR NPN BF422	D317	15B40T2011	DI HI SW 1A 50V
• Q622	14A92-061E	TR PNP BF423	D318	15S65M201F	DI RECTIFIER 1A 400V
Q623	14C92-011E	TR NPN BF422	D319	15S65M201F	DI RECTIFIER 1A 400V
• Q624	14A92-061E	TR PNP BF423	D320	15S65M201F	DI RECTIFIER 1A 400V
Q625	14C92-011E	TR NPN BF422	D321	15S11M001F	DI SW 0.5A 50V 1N4148
Q627	14C92-111B	TR NPN 2SC945P/Q	D322	15S11M001F	DI SW 0.5A 50V 1N4148
			D323	15S65M201F	DI RECTIFIER 1A 400V
	Dic	DDES	D402	15S35T201F	DI MD SW 1A 400V
			D403	15S47T201F	DI HI SW 1A 600V 30NS
D101	15S49T200F	DI HI SW 1A 1000V 75NS	D404	15S35T201F	DI MD SW 1A 400V
D102	15S49T200F	DI HI SW 1A 1000V 75NS	D405	15S11M001F	DI SW 0.5A 50V 1N4148
D103	15S11M001F	DI SW 0.5A 50V 1N4148	D406	15B40T2011	DI HI SW 1A 50V
D104	15S33T201F	DI MD SW 1A 200V	D408	15S11M001F	DI SW 0.5A 50V 1N4148
⊚ D105	15S11M001F	DI SW 0.5A 50V 1N4148	D409	15S11M001F	DI SW 0.5A 50V 1N4148
⊚ D106	15S43T601T	DI HI SW 3A 200V 50NS	D418	15S11M001F	DI SW 0.5A 50V 1N4148
D107	15S11M001F	DI SW 0.5A 50V 1N4148	D419	15S35T201F	DI MD SW 1A 400V
● D108	15S49TK00F	DI HI SW 2.3A 1000V 75NS	D422	15S39T201F	DI MD SW 1A 1000V
● D109	15S47TK00F	DI HI SW 2.3A 600V 30NS	D423	15S11M001F	DI SW 0.5A 50V 1N4148
● D110	15S47TK00F	DI HI SW 2.3A 600V 30NS	D426	15S11M001F	DI SW 0.5A 50V 1N4148
D111	15S65M201F	DI RECTIFIER 1A 400V	D501	15S11M001F	DI SW 0.5A 50V 1N4148
⊙ D112	15B6J-6010	DI HI SW 3A 60V	D502	15S11M001F	DI SW 0.5A 50V 1N4148
D113	15S11M001F	DI SW 0.5A 50V 1N4148	D503	15S11M001F	DI SW 0.5A 50V 1N4148
D114	15S11M001F	DI SW 0.5A 50V 1N4148	D504	15S11M001F	DI SW 0.5A 50V 1N4148
● D117	15S49TK00F	DI HI SW 2.3A 1000V 75NS	D601	15S43M001F	DI HI SW 0.5A 200V
D119	15S11M001F	DI SW 0.5A 50V 1N4148	D602	15S43M001F	DI HI SW 0.5A 200V
D120	15S11M001F	DI SW 0.5A 50V 1N4148	D603	15S43M001F	DI HI SW 0.5A 200V
D121	15B40T2011	DI HI SW 1A 50V	D604	15S43M001F	DI HI SW 0.5A 200V
D122	15S11M001F	DI SW 0.5A 50V 1N4148	D605	15S43M001F	DI HI SW 0.5A 200V
D203	15S11M001F	DI SW 0.5A 50V 1N4148	D606	15S43M001F	DI HI SW 0.5A 200V
D204	15S61M201F	DI RECTIFIER 1A 50V	D610	15S11M001F	DI SW 0.5A 50V 1N4148
D205	15S11M001F	DI SW 0.5A 50V 1N4148	D611	15S11M001F	DI SW 0.5A 50V 1N4148
D301	15S11M001F	DI SW 0.5A 50V 1N4148	D612	15S11M001F	DI SW 0.5A 50V 1N4148
D302	15S11M001F	DI SW 0.5A 50V 1N4148	D613	15S11M001F	DI SW 0.5A 50V 1N4148
D303	15S11M001F	DI SW 0.5A 50V 1N4148	D614	15S11M001F	DI SW 0.5A 50V 1N4148
D304	15S11M001F	DI SW 0.5A 50V 1N4148	D615	15\$11M001F	DI SW 0.5A 50V 1N4148
D306	15S33T201F	DI MD SW 1A 200V			

51

Location	Part No.	Description	Location	Part No.	Description
		DIODEO	R131	22215-242M	CF 2K4 5% 1/8W
	ZENEF	RDIODES	R132	22215-272M	CF 2K7 5% 1/8W
70404	45700144000		R133	22215-102M	CF 1K 5% 1/8W
ZD101	15Z33M1800P	ZD 18V 5% 0.5W	R134	22225-221M	CF 220R 5% 1/4W
ZD102	15Z33M6290P	ZD 6.2V 5% 0.5W	R136	22225-333M	CF 33K 5% 1/4W
ZD103	15Z33M1600H	ZD 16-2V 5% 0.5W	R137	22215-103M	CF 10K 5% 1/8W
ZD105	15Z33M3600P	ZD 36V 5% 0.5W	R138	22215-472M	CF 4K7 5% 1/8W
ZD106	15Z33M3600P	ZD 36V 5% 0.5W	R139	22225-100M	CF 10R 5% 1/4W
ZD108	15Z33M1200P	ZD 12V 5% 0.5W	R140	22215-473M	CF 47K 5% 1/8W
ZD301	15Z33M2490P	ZD 2.4V 5% 0.5W	R143	22245-4741	CF 470K 5% 1/2W
ZD302	15Z33M9190P	ZD 9.1V 5% 0.5W	R144	22245-2231	CF 22K 5% 1/2W
ZD303	15Z33M1200P	ZD 12V 5% 0.5W	R146	22225-103M	CF 10K 5% 1/4W
ZD304	15Z33M1200P	ZD 12V 5% 0.5W	R147	22215-271M	CF 270R 5% 1/8W
ZD402	15Z33M1200P	ZD 12V 5% 0.5W	R148	22215-472M	CF 4K7 5% 1/8W
ZD403	15Z33M5190H	ZD 5.1V 5% 0.5W	R149	22215-223M	CF 22K 5% 1/8W
ZD405	15Z33M1200P	ZD 12V 5% 0.5W	R151	22215-104M	CF 100K 5% 1/8W
ZD501	15Z33M3990P	ZD 3.9V 5% 0.5W	R154	22215-182M	CF 1K8 5% 1/8W
ZD503	15Z33M5190H	ZD 5.1V 5% 0.5W	R201	22215-332M	CF 3K3 5% 1/8W
			R202	22215-152M	CF 1K5 5% 1/8W
	RESI	STORS	R203	22215-683M	CF 68K 5% 1/8W
			R207	22225-109 <b>M</b>	CF 1R 5% 1/4W
R101	22245-4741	CF 470K 5% 1/2W	R208	23245-3914	MOF 390R 5% 1W
R102	23245-3034	MOF 30K 5% 1W	R215	22215-223M	CF 22K 5% 1/8W
R103	24765-3031	CEMENT 30K 5% 5W	R217	23A11S052M	MF 953R 1% 1/8W
R104	24765-1021	CEMENT 1K 5% 5W	R219	22215-472M	CF 4K7 5% 1/8W
R105	23225-109M	MOF 1R 5% 1/4W	R220	22215-473M	CF 47K 5% 1/8W
R106	22225-152M	CF 1K5 5% 1/4W	R223	22225-152M	CF 1K5 5% 1/4W
R107	22225-101M	CF 100R 5% 1/4W	R226	23245-1094	MOF 1R 5% 1W
R108	22225-680M	CF 68R 5% 1/4W	R227	22215-332M	CF 3K3 5% 1/8W
R109	22215-472M	CF 4K7 5% 1/8W	R231	23A11-272M	MF 2K7 1% 1/8W
R110	22215-471M	CF 470R 5% 1/8W	R233	22215-152M	CF 1K5 5% 1/8W
R111	22215-103M	CF 10K 5% 1/8W	R234	22215-222M	CF 2K2 5% 1/8W
R112	22245-6831	CF 68K 5% 1/2W	R297	22215-562M	CF 5K6 5% 1/8W
R113	23A11S055M	MF 988R 1% 1/8W	R301	22225-102M	CF 1K 5% 1/4W
R114	22225-163M	CF 16K 5% 1/4W	R302	22215-103M	CF 10K 5% 1/8W
R115	22215-103M	CF 10K 5% 1/8W	R303	22215-562M	CF 5K6 5% 1/8W
R117	22215-223M	CF 22K 5% 1/8W	R304	22215-102M	CF 1K 5% 1/8W
R119	22215-472M	CF 4K7 5% 1/8W	R305	22215-103M	CF 10K 5% 1/8W
R120	22215-121M	CF 120R 5% 1/8W	R306	22215-153M	CF 15K 5% 1/8W
R121	22215-271M	CF 270R 5% 1/8W	R307	22215-163M	CF 16K 5% 1/8W
⊙ R124	23755-8234	MOF 82K 5% 2W	R308	22215-512M	CF 5K1 5% 1/8W
R125	22215-471M	CF 470R 5% 1/8W	R309	22215-913M	CF 91K 5% 1/8W
• R126	23755-2284	MOF 0.22R 5% 2W	R310	22215-153M	CF 15K 5% 1/8W
R127	22215-472M	CF 4K7 5% 1/8W	R311	22215-133M	CF 13K 5% 1/8W
R128	22215-473M	CF 47K 5% 1/8W	R312	22215-123M	CF 12K 5% 1/8W
R129	22225-681M	CF 680R 5% 1/4W	R313	22215-222M	CF 2K2 5% 1/8W
R130	22215-473M	CF 47K 5% 1/8W			

Location	Part No.	Description	Location	Part No.	Description
R314	22215-333M	CF 33K 5% 1/8W	R363	22215-472M	CF 4K7 5% 1/8W
R315	22215-123M	CF 12K 5% 1/8W	R364	22215-221M	CF 220R 5% 1/8W
R316	22215-472M	CF 4K7 5% 1/8W	R365	23765-1805	MOF 18R 5% 3W
R317	22215-203M	CF 20K 5% 1/8W	R366	23225-109M	MOF 1R 5% 1/4W
R318	22225-124M	CF 120K 5% 1/4W	R367	23225-109M	MOF 1R 5% 1/4W
R319	23755-1014	MOF 100R 5% 2W	R368	22245-2201	CF 22R 5% 1/2W
R320	22215-222M	CF 2K2 5% 1/8W	R369	23886-1090	MOF 1R 10% 5W
R321	22215-473M	CF 47K 5% 1/8W	R370	22225-103M	CF 10K 5% 1/4W
R322	22215-102M	CF 1K 5% 1/8W	R371	23885-6810	MOF 680R 5% 5W
R323	23245-1094	MOF 1R 5% 1W	R372	22215-470M	CF 47R 5% 1/8W
R324	22215-153M	CF 15K 5% 1/8W	R373	22215-153M	CF 15K 5% 1/8W
R325	23A11S051M	MF 11K8 1% 1/8W	R374	22215-103M	CF 10K 5% 1/8W
R326	22215-473M	CF 47K 5% 1/8W	R375	22215-103M	CF 10K 5% 1/8W
R328	22215-562M	CF 5K6 5% 1/8W	R376	22215-223M	CF 22K 5% 1/8W
R329	22215-102M	CF 1K 5% 1/8W	R377	22215-153M	CF 15K 5% 1/8W
R330	22215-623M	CF 62K 5% 1/8W	R378	22215-223M	CF 22K 5% 1/8W
R331	23A11-622M	MF 6K2 1% 1/8W	R379	22215-153M	CF 15K 5% 1/8W
333	22215-104M	CF 100K 5% 1/8W	R380	22215-133M	CF 22K 5% 1/8W
R334	22215-105M	CF 1M 5% 1/8W	R381	22215-272M	CF 2K7 5% 1/8W
R335	22215-273M	CF 27K 5% 1/8W	R382	22215-153M	CF 15K 5% 1/8W
R336	22215-273M	CF 22K 5% 1/8W	R383	22215-103M	CF 10K 5% 1/8W
337	22215-225M	CF 220K 5% 1/8W			
338	22215-224M 22215-103M	CF 10K 5% 1/8W	R384	22215-472M	CF 4K7 5% 1/8W
339		*	R385	22215-103M	CF 10K 5% 1/8W
	22215-562M	CF 5K6 5% 1/8W	R386	22215-391M	CF 390R 5% 1/8W
R340	22215-473M	CF 47K 5% 1/8W	R387	22215-223M	CF 22K 5% 1/8W
R341	22215-473M	CF 47K 5% 1/8W	R388	23245-3304	MOF 33R 5% 1W
R342	22215-202M	CF 2K 5% 1/8W	R389	22215-153M	CF 15K 5% 1/8W
R343	22215-224M	CF 220K 5% 1/8W	R401	23755-3304	MOF 33R 5% 2W
R344	22215-223M	CF 22K 5% 1/8W	R402	22245-3341	CF 330K 5% 1/2W
R345	22215-223M	CF 22K 5% 1/8W	R403	22215-332M	CF 3K3 5% 1/8W
R346	22215-224M	CF 220K 5% 1/8W	R404	22215-683M	CF 68K 5% 1/8W
R347	22245-2211	CF 220R 5% 1/2W	R405	22215-123M	CF 12K 5% 1/8W
R348	22215-272M	CF 2K7 5% 1/8W	R406	22215-821M	CF 820R 5% 1/8W
R349	23225-109M	MOF 1R 5% 1/4W	R407	22215-222M	CF 2K2 5% 1/8W
R350	22215-103M	CF 10K 5% 1/8W	R408	22225-561M	CF 560R 5% 1/4W
R351	22215-222M	CF 2K2 5% 1/8W	R409	23765-3395	MOF 3R3 5% 3W
R352	22215-473M	CF 47K 5% 1/8W	R410	22245-2201	CF 22R 5% 1/2W
R353	22215-133M	CF 13K 5% 1/8W	R411	23755-3314	MOF 330R 5% 2W
R354	22215-152M	CF 1K5 5% 1/8W	R412	22215-153M	CF 15K 5% 1/8W
R355	22215-512M	CF 5K1 5% 1/8W	R425	23225-688M	MOF 0.68R 5% 1/4W
R356	22215-123M	CF 12K 5% 1/8W	R429	22215-103M	CF 10K 5% 1/8W
R357	22215-474M	CF 470K 5% 1/8W	R430	22215-224M	CF 220K 5% 1/8W
R358	22215-103M	CF 10K 5% 1/8W	R431	22215-105M	CF 1M 5% 1/8W
R359	22215-562M	CF 5K6 5% 1/8W	R436	23225-109M	MOF 1R 5% 1/4W
R360	22215-102M	CF 1K 5% 1/8W	R437	22225-394M	CF 390K 5% 1/4W
R361	22215-100M	CF 10R 5% 1/8W	R439	22215-103M	CF 10K 5% 1/8W

Location	Part No.	Description	Location	Part No.	Description
R440	22225-103M	CF 10K 5% 1/4W	R511	22225-432M	CF 4K3 5% 1/4W
R441	22215-103M	CF 10K 5% 1/8W	R512	22215-271M	CF 270R 5% 1/8W
R448	22225-104M	CF 100K 5% 1/4W	R513	22225-102M	CF 1K 5% 1/4W
R450	22215-153M	CF 15K 5% 1/8W	R514	22225-102M	CF 1K 5% 1/4W
R451	23225-109M	MOF 1R 5% 1/4W	R515	22215-122M	CF 1K2 5% 1/8W
R452	22225-510M	CF 51R 5% 1/4W	R516	22215-122M	CF 1K2 5% 1/8W
● R453	23225-109M	MOF 1R 5% 1/4W	R517	22215-102M	CF 1K 5% 1/8W
R455	22215-103M	CF 10K 5% 1/8W	R518	22215-472M	CF 4K7 5% 1/8W
R457	23A11-183M	MF 18K 1% 1/8W	R519	22215-472M	CF 4K7 5% 1/8W
R458	23A11-133M	MF 13K 1% 1/8W	R520	22215-472M	CF 4K7 5% 1/8W
R459	23A11-682M	MF 6K8 1% 1/8W	R521	22215-472M	CF 4K7 5% 1/8W
R464	22215-303M	CF 30K 5% 1/8W	R522	22215-472M	CF 4K7 5% 1/8W
R465	22215-103M	CF 10K 5% 1/8W	R523	22215-472M	CF 4K7 5% 1/8W
R466	22225-510M	CF 51R 5% 1/4W	R524	22215-472M	CF 4K7 5% 1/8W
R467	22215-563M	CF 56K 5% 1/8W	R525	22215-472M	CF 4K7 5% 1/8W
R468	22215-103M	CF 10K 5% 1/8W	R526	22215-472M	CF 4K7 5% 1/8W
R469	22215-105M	CF 1M 5% 1/8W	R527	22215-102M	CF 1K 5% 1/8W
R471	23A11-333M	MF 33K 1% 1/8W	R528	22225-100M	CF 10R 5% 1/4W
R472	22215-683M	CF 68K 5% 1/8W	R529	22215-243M	CF 24K 5% 1/8W
R473	22215-182M	CF 1K8 5% 1/8W	R530	22215-103M	CF 10K 5% 1/8W
R474	22245-3331	CF 33K 5% 1/2W	R531	22215-102M	CF 1K 5% 1/8W
R475	22225-105M	CF 1M 5% 1/4W	R532	22215-473M	CF 47K 5% 1/8W
R476	22225-105M	CF 1 <b>M</b> 5% 1/4W	R533	22215-822M	CF 8K2 5% 1/8W
R477	22225-105M	CF 1M 5% 1/4W	R534	22215-473M	CF 47K 5% 1/8W
R478	22225-681M	CF 680R 5% 1/4W	R535	22215-471M	CF 470R 5% 1/8W
R480	22245-1841	CF 180K 5% 1/2W	R536	22215-472M	CF 4K7 5% 1/8W
R481	22215-184M	CF 180K 5% 1/8W	R537	22225-272M	CF 2K7 5% 1/4W
R483	22215-103M	CF 10K 5% 1/8W	R538	22225-101M	CF 100R 5% 1/4W
R484	22225-273M	CF 27K 5% 1/4W	R539	22215-562M	CF 5K6 5% 1/8W
R485	22225-913M	CF 91K 5% 1/4W	R541	22215-102M	CF 1K 5% 1/8W
R486	22225-102M	CF 1K 5% 1/4W	R555	23225-109M	MOF 1R 5% 1/4W
R487	22225-334M	CF 330K 5% 1/4W	R600	22215-102M	CF 1K 5% 1/8W
R490	22215-102M	CF 1K 5% 1/8W	R601	22215-471M	CF 470R 5% 1/8W
R492	22215-102M	CF 1K 5% 1/8W	R602	22215-470M	CF 47R 5% 1/8W
R496	22215-151M	CF 150R 5% 1/8W	R603	22215-101M	CF 100R 5% 1/8W
R497	22225-332M	CF 3K3 5% 1/4W	R604	22215-470M	CF 47R 5% 1/8W
R501	22215-472M	CF 4K7 5% 1/8W	R605	22225-101M	CF 100R 5% 1/4W
R502	22215-472M	CF 4K7 5% 1/8W	R607	22215-473M	CF 47K 5% 1/8W
R503	22215-153M	CF 15K 5% 1/8W	R608	22225-101M	CF 100R 5% 1/4W
R504	22215-103M	CF 10K 5% 1/8W	R609	22215-332M	CF 3K3 5% 1/8W
R505	22225-102M	CF 1K 5% 1/4W	R610	22215-472M	CF 4K7 5% 1/8W
R506	22215-102M	CF 1K 5% 1/8W	R611	22215-473M	CF 47K 5% 1/8W
R507	22225-471M	CF 470R 5% 1/4W	R612	22215-330M	CF 33R 5% 1/8W
R508	22225-472M	CF 4K7 5% 1/4W	R613	22215-123M	CF 12K 5% 1/8W
R509	22225-472M	CF 4K7 5% 1/4W	R614	22215-470M	CF 47R 5% 1/8W
R510	22225-472M	CF 4K7 5% 1/4W	R616	22215-102M	CF 1K 5% 1/8W
	,,		1.0.0		3

Location	Part No.	Description	Location	Part No.	Description
R617	22215-561M	CF 560R 5% 1/8W	R691	22215-473M	CF 47K 5% 1/8W
R618	22215-561M	CF 560R 5% 1/8W	R692	22215-473M	CF 47K 5% 1/8W
R619	22215-561M	CF 560R 5% 1/8W	R693	22215-473M	CF 47K 5% 1/8W
R620	22215-473M	CF 47K 5% 1/8W	R694	22215-103M	CF 10K 5% 1/8W
R621	22215-750M	CF 75R 5% 1/8W	R695	22215-331M	CF 330R 5% 1/8W
R622	22215-752M	CF 7K5 5% 1/8W	R696	22215-101M	CF 100R 5% 1/8W
R623	22215-750M	CF 75R 5% 1/8W	R697	22215-101M	CF 100R 5% 1/8W
R624	22215-750M	CF 75R 5% 1/8W	R698	22215-101M	CF 100R 5% 1/8W
R625	22215-750M	CF 75R 5% 1/8W	R699	22215-101M	CF 100R 5% 1/8W
R627	22215-121M	CF 120R 5% 1/8W	R708	22225-100M	CF 10R 5% 1/4W
R628	22215-330M	CF 33R 5% 1/8W	R901	23A11S032M	MF 19K2 1% 1/8W
R631	22215-750M	CF 75R 5% 1/8W	R902	23A11S032M	MF 19K2 1% 1/8W
R632	22215-750M	CF 75R 5% 1/8W	R903	23A11-123M	MF 12K 1% 1/8W
R636	22215-102M	CF 1K 5% 1/8W	R904	23A11-123M	MF 12K 1% 1/8W
R637	22215-102M	CF 120R 5% 1/8W	R906	23A11S010M	MF 5K23 1% 1/8W
R638	22215-121M	CF 1K 5% 1/8W			
	,	CF 470R 5% 1/8W		VARIABLE	RESISTOR
R639	22215-471M	CF 30K 5% 1/8W			
R641	22215-303M	CF 1K 5% 1/8W	VR101	25B20-502B	POT 5KB 0.1W
R646	22215-102M	CF 120R 5% 1/8W	VR102	25B20-102B	POT 1KB 0.1W
R648	22215-121M	CF 126K 5% 1/8W	VR301	25AA0-103B	POT 10KB 0.1W
R653	22215-103M	CF 220K 5% 1/8W	VR302	25B20-102B	POT 1KB 0:1W
R657	22215-224M	CF 220K 5% 1/8W	VR303	25AA0-103B	POT 10KB 0.1W
R658	22215-224M	CF 220K 5% 1/8W	VR403	25B20-103B	POT 10KB 0.1W
R659	22215-224M	CF 220K 5% 1/8W			
R660	22215-224M	CF 220K 5% 1/8W		CAP	ACITOR
R661	22215-224M	CF 220K 5% 1/8W			.00
R662	22215-224M	CF 22K 5% 1/8W	C101	42A77-474F	SAFETY 0.47U 20% AC250V
R663	. 22215-223M	CF 22K 5% 1/8W	C102	42D77-2224	SAFETY 2200P 20%
R664	22215-223M 22215-223M	CF 22K 5% 1/8W	C103	42D77-2224	SAFETY 2200P 20%
R665			C104	28CD7-2217	EL 220U 20% 400V
R666	22215-102M	CF 1K 5% 1/8W	C105	34175-1034	MPE 0.01U 5% 630V
R668	22215-102M	CF 1K 5% 1/8W	C106	34175-1034	MPE 0.01U 5% 630V
R670	22215-102M	CF 1K 5% 1/8W	C108	28A47-4711	EL 470U 20% 25V
R672	22215-332M	CF 3K3 5% 1/8W	C111	28H47-101R	EL 100U 20% 25V
R673	22215-332M	CF 3K3 5% 1/8W	C112	39546-221R	CE 220P 10% 1KV
R674	22215-332M	CF 3K3 5% 1/8W	C113	39146-332R	CE 3300P 10% 50V
R675	23245-1294	MOF 1R2 5% 1W	C114	39B87C104R	ML 0.1U 20% 50V
R676	22245-1211	CF 120R 5% 1/2W	C115	28H47-101R	EL 100U 20% 25V
R677	22215-224M	CF 220K 5% 1/8W	C116	31115-332R	PEI 3300P 5% 50V
R678	22245-1211	CF 120R 5% 1/2W	C117	39146-102R	CE 1000P 10% 50V
R679	22215-224M	CF 220K 5% 1/8W	C118	31115-102R	PEI 1000P 5% 50V
R680	22245-1211	CF 120R 5% 1/2W	C119	283A7-1015	EL 100U 20% 200V
R681	22215-224M	CF 220K 5% 1/8W	C120	39446-1038	CE 0.01U 10% 500V
R682	22245-4701	CF 47R 5% 1/2W	C121	28A97-1011	EL 100U 20% 100V
R683	22245-1041	CF 100K 5% 1/2W	C122	39546-470R	CE 47P 10% 1KV Y5P
R690	22215-242M	CF 2K4 5% 1/8W		_	

55

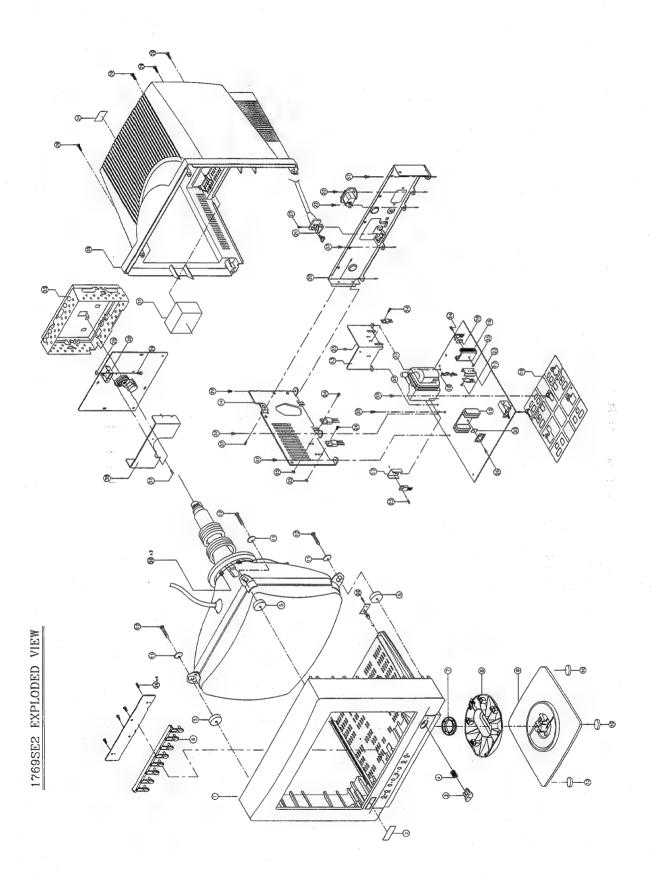
Location	Part No.	Description	Location	Part No.	Description
C123	28A47-4711	EL 470U 20% 25V	C308	28H67-100R	EL 10U 20% 50V
C125	28A37-1021	EL 1000U 20% 16V	C309	28H67-100R	EL 10U 20% 50V
C126	39546-470R	CE 47P 10% 1KV Y5P	C310	28H67-100R	EL 10U 20% 50V
C128	28H37-1021	EL 1000U 20% 16V	C311	38115-101R	CE 100P 5% 50V NPO
C129	28H37-331R	EL 330U 20% 16V	C312	39B87C104R	ML 0.1U 20% 50V
C130	28H37-470R	EL 47U 20% 16V	C313	39B87C104R	ML 0.1U 20% 50V
C131	28A97-1011	EL 100U 20% 100V	C314	28H67-229R	EL 2U2 20% 50V
C132	28A47-4711	EL 470U 20% 25V	C315	28H67-109R	EL 1U 20% 50V
C133	42D77-4725	SAFETY 4700P 20%	C316	39B87C104R	ML 0.1U 20% 50V
C135	39B87C104R	ML 0.1U 20% 50V	C317	39446-681R	CE 680P 10% 500V
C136	39B87C104R	ML 0.1U 20% 50V	C318	34145-1544	MPE 0.15U 5% 250V
C137	28HB7-4701	EL 47U 20% 250V	C319	28H37-471R	EL 470U 20% 16V
C138	28A47-4711	EL 470U 20% 25V	C320	39B87C104R	ML 0.1U 20% 50V
C139	38115-101R	CE 100P 5% 50V NPO	C321	39B87C104R	ML 0.1U 20% 50V
C140	28A47-151R	EL 150U 20% 25V	C322	28H67-100R	EL 10U 20% 50V
C141	28H37-331R	EL 330U 20% 16V	C323	39B87C104R	ML 0.1U 20% 50V
C142	28H37-101R	EL 100U 20% 16V	C324	28H47-470R	EL 47U 20% 25V
C151	28H37-101R	EL 1000 20% 16V	C325	28H67-109R	EL 1U 20% 50V
C151	28H37-471R	EL 470U 20% 16V	C326	28HB7-109R	EL 1U 20% 250V
C201	39146-681R	CE 680P 10% 50V	C327	39187-103R	CE 0.01U 20% 50V
C205	28H47-4711	EL 470U 20% 25V	C328	28H37-471R	EL 470U 20% 16V
		•	C329	28H67-109R	EL 1U 20% 50V
C206	39B87C104R	ML 0.1U 20% 50V			
C207	346B5-224R	MPE 0.22U 5% 63V	C330	28H67-479R	EL 4U7 20% 50V
C208	39B87C104R	ML 0.1U 20% 50V	C331	39446-102R	CE 1000P 10% 500V
C215	31115-473R	PEI 0.047U 5% 50V	C332	28H37-470R	EL 47U 20% 16V
C218	39B87C104R	ML 0.1U 20% 50V	C333	28H67-479R	EL 4U7 20% 50V
C221	39B87C104R	ML 0.1U 20% 50V	C334	39187-103R	CE 0.01U 20% 50V
C222	39146-102R	CE 1000P 10% 50V	C335	28H67-100R	EL 10U 20% 50V
C223	28H67-100R	EL 10U 20% 50V	C337	39B87C104R	ML 0.1U 20% 50V
C224	28H47-4711	EL 470U 20% 25V	C338	39187-103R	CE 0.01U 20% 50V
C225	28H57-101R	EL 100U 20% 35V	C339	34145-335C	MPE 3U3 5% 250V
C234	39B87C104R	ML 0.1U 20% 50V	C340	28HB7-2201	EL 22U 20% 250V
C236	28457-479R	EL 4U7 20% 35V	C341	34145-4734	MPE 0.047U 5% 250V
C238	39B87C104R	ML 0.1U 20% 50V	C342	32115-102R	PEN 1000P 5% 50V
C239	39B87C104R	ML 0.1U 20% 50V	C343	32115-103R	PEN 0.01U 5% 50V
C240	39146-102R	CE 1000P 10% 50V	C344	38115-220R	CE 22P 5% 50V NPO
C241	39B87C104R	ML 0.1U 20% 50V	C345	375B5-472CH	PPS 4700P 5% 2KV
C247	39146-471R	CE 470P 10% 50V	C348	28H97-1011	EL 100U 20% 100V
C271	39B87C104R	ML 0.1U 20% 50V	C349	39446-102R	CE 1000P 10% 500V
C301	39B87C104R	ML 0.1U 20% 50V	C350	35155A2246	MPP 0.22U 5% 400V
C302	39B87C104R	ML 0.1U 20% 50V	C351	39B87C104R	ML 0.1U 20% 50V
C303	39B87C104R	ML 0.1U 20% 50V	C353	39446-472R	CE 4700P 10% 500V
C304	346B5-334R	MPE 0.33U 5% 63V	C354	35155-6836	MPP 0.068U 5% 400V
C305	28H37-470R	EL 47U 20% 16V	C355	39146-102R	CE 1000P 10% 50V
C306	39B87C104R	ML 0.1U 20% 50V	C356	35155-1847	MPP 0.18U 5% 400V
C307	39B87C104R	ML 0.1U 20% 50V	C357	39146-471R	CE 470P 10% 50V

Location	Part No.	Description	Location	Part No.	Description
C358	35155-474C	MPP 0.47U 5% 400V	C507	39146-102R	CE 1000P 10% 50V
C359	39146-471R	CE 470P 10% 50V	C508	38115-470R	CE 47P 5% 50V NPO
C360	28H67-220R	EL 22U 20% 50V	C509	28H67-479R	EL 4U7 20% 50V
C361	35145-125C	MPP 1U2 5% 250V	C510	28H67-479R	EL 4U7 20% 50V
C362	39146-471R	CE 470P 10% 50V	C511	28H67-479R	EL 4U7 20% 50V
C380	39B87C104R	ML 0.1U 20% 50V	C512	28H67-479R	EL 4U7 20% 50V
C390	28H37-470R	EL 47U 20% 16V	C513	28H67-479R	EL 4U7 20% 50V
C391	39146-331R	CE 330P 10% 50V	C514	28H67-479R	EL 4U7 20% 50V
C392	39B56E332R	ML 3300P 10% 50V	C515	28H67-479R	EL 4U7 20% 50V
C393	39B87C104R	ML 0.1U 20% 50V	C516	28H67-479R	EL 4U7 20% 50V
C394	39B87C104R	ML 0.1U 20% 50V	C517	28H67-479R	EL 4U7 20% 50V
C396	39146-102R	CE 1000P 10% 50V	C518	28H67-479R	EL 4U7 20% 50V
C398	39146-102R	CE 1000P 10% 50V	C520	39187-103R	CE 0.01U 20% 50V
C401	39446-221R	CE 220P 10% 500V	C521	28H47-101R	EL 100U 20% 25V
C402	34145-1534	MPE 0.015U 5% 250V	C522	39B87C104R	ML 0.1U 20% 50V
C403	28H67-100R	EL 10U 20% 50V	C523	28H37-470R	EL 47U 20% 16V
C404	28467-229R	EL 2U2 20% 50V	C524	39187-103R	CE 0.01U 20% 50V
C405	28457-479R	EL 4U7 20% 35V	C525	31115-102R	PEI 1000P 5% 50V
C406	28HB7-2201	EL 22U 20% 250V	C526	31115-102R	PEI 1000P 5% 50V
C407	35145-6847	MPP 0.68U 5% 250V	C527	39187-103R	CE 0.01U 20% 50V
C408	34145-2246	MPE 0.22U 5% 250V	C601	28H37-331R	EL 330U 20% 16V
C409	39446-471R	CE 470P 10% 500V	C603	39999-104R	CE 0.1U +80-20% 50V
C410	375B5-1827H	PPS 1800P 5% 2KV	C604	28H67-100R	EL 10U 20%-50V
C411	34125-1043	MPE 0.1U 5% 100V	C605	28H67-100R	EL 10U 20% 50V
			C606	39999-104R	CE 0.1U +80-20% 50V
C412	28HE7-3391	EL 3U3 20% 450V	1		
C413	39187-103R	CE 0.01U 20% 50V	C607	39999-104R	CE 0.1U +80-20% 50V
C414	39146-102R	CE 1000P 10% 50V	C608	28H67-100R	EL 10U 20% 50V
C415	39B87C104R	ML 0.1U 20% 50V	C609	39999-104R	CE 0.1U +80-20% 50V
C438	28H67-100R	EL 10U 20% 50V	C610	39999-104R	CE 0.1U +80-20% 50V
C439	28HB7-1001	EL 10U 20% 250V	C611	39999-104R	CE 0.1U +80-20% 50V
C440	39546-1038	CE 0.01U 10% 1KV	C612	39187-103R	CE 0.01U 20% 50V
C442	28H67-109R	EL 1U 20% 50V	C613	28H67-100R	EL 10U 20% 50V
C443	39446-1038	CE 0.01U 10% 500V	C614	39187-103R	CE 0.01U 20% 50V
C444	28H67-479R	EL 4U7 20% 50V	C615	38115-470R	CE 47P 5% 50V NPO
C445	39146-152R	CE 1500P 10% 50V	C616	28H67-229R	EL 2U2 20% 50V
C447	39446-1038	CE 0.01U 10% 500V	C617	39999-104R	CE 0.1U +80-20% 50V
C455	39187-103R	CE 0.01U 20% 50V	C618	28H67-229R	EL 2U2 20% 50V
C456	38596-220R	CE 22P 10% 1KV	C619	39999-104R	CE 0.1U +80-20% 50V
C457	28H67-100R	EL 10U 20% 50V	C620	28H27-221R	EL 220U 20% 10V
C460	28H67-109R	EL 1U 20% 50V	C621	39B87C1043	ML 0.1U 20% 50V
C501	28H67-479R	EL 4U7 20% 50V	C622	28H67-229R	EL 2U2 20% 50V
C502	28H67-479R	EL 4U7 20% 50V	C623	28H67-109R	EL 1U 20% 50V
C503	28H67-479R	EL 4U7 20% 50V	C624	39187-103R	CE 0.01U 20% 50V
C504	28H67-100R	EL 10U 20% 50V	C625	39999-104R	CE 0.1U +80-20% 50V
C505	38196-330R	CE 33P 10% 50V	C627	39187-103R	CE 0.01U 20% 50V
C506	38196-330R	CE 33P 10% 50V	C628	39187-103R	CE 0.0111 20% 50V

Location	Part No.	Description	Location	Part No.	Description
C630	39E56E103R	ML 0.01U 10% 100V	L402	46N00-0510	COIL CHOKE 5mH EI-22
C631	39E56E103R	ML 0.01U 10% 100V	L602	45B0K-109M	COIL PEAKING 1U
C638	39B87C104R	ML 0.1U 20% 50V	L603	45B0K-109M	COIL PEAKING 1U
C640	28H37-470R	EL 47U 20% 16V	L604	45B0K-109M	COIL PEAKING 1U
C641	28A97-4701	EL 47U 20% 100V	L612	45B0K-338M	COIL PEAKING 0.33U
C646	39187-103R	CE 0.01U 20% 50V	L613	45B0K-338M	COIL PEAKING 0.33U
C648	34125-2244	MPE 0.22U 5% 100V	L614	45B0K-338M	COIL PEAKING 0.33U
C649	34125-2244	MPE 0.22U 5% 100V			
C650	34125-2244	MPE 0.22U 5% 100V		TRANS	FORMERS
C651	39446-472R	CE 4700P 10% 500V			
C652	28HB7-109R	EL 1U 20% 250V	T101	47S00-0830T	XFMR SPS EE-42/15
C654	39187-103R	CE 0.01U 20% 50V	T301	47P10-0100	XFMR PINCUSHING EI-25
C656	39187-103R	- CE 0.01U 20% 50V	T302	47F15-0040	XFMR FBT DUMMY
C658	39187-103R	CE 0.01U 20% 50V	T303	47D10-0340L	XFMR DRIVE EI-22
C659	39187-103R	CE 0.01U 20% 50V	T401	47J00-0070	XFMR FOCUS EI-22
C660	39187-103R	CE 0.01U 20% 50V	T402	47D10-0290L	XFMR DRIVE EI-19
C661	39446-102R	CE 1000P 10% 500V	T402	47F13-0720S	XFMR FBT
C662	39687-1038	CE 0.01U 20% 2KV			W/FOCUS/SCREEN/CR BLOCK
C673	39E56E103R	ML 0.01U 10% 100V			
C676	28H27-221R	EL 220U 20% 10V			
C680	39B87C104R	ML 0.1U 20% 50V			
C681	39146-472R	CE 4700P 10% 50V			
C682	39187-103R	CE 0.01U 20% 50V			
C688	38115-470R	CE 47P 5% 50V NPO			
C690	39146-471R	CE 470P 10% 50V			
C691	39B87C104R	ML 0.1U 20% 50V			
C693	39146-222R	CE 2200P 10% 50V			
C694	39446-471R	CE 470P 10% 500V			
C695	39187-103R	CE 0.01U 20% 50V			
	c	OILS			
L101	45M1K-4704	COIL CHOKE 47U			
L102	47E00-0240	XFMR EMI ET-24			
L103	47E00-0240	XFMR EMI ET-24			
L104	45M1K-4704	COIL CHOKE 47U			
L106	45M1K-4704	COIL CHOKE 47U	·		
L107	45M1K-4704	COIL CHOKE 47U			
L108	45M1K-4704	COIL CHOKE 47U		·	
L109	45B0K-220T	COIL PEAKING 22U			
L301	46L00-0750L	COIL LINEAR 5.7uH			
L302	45M1K-4704	COIL CHOKE 47U	•		,
L303	46N00-0140	COIL LINE CHOKE 2.5mH		-	
L304	46N00-0120	COIL LINE CHOKE 1mH			
	46N00 0430	COIL LINE CHOKE 1mH			
L305	46N00-0120	COIL LINE CHOKE IIIII		1	

Location	Part No.	Description	
		ITEGRATED CIRCUITS	•
• IC101	17A06-150G	IC LINEAR 8P DEFLECTION3842	
! IC102	17A07-171H	IC LINEAR VOTAGE REG, XC62AP5002LH 3P	
IC103	17B21-090B	IC PHOTO OPTOCUPLER PS2561-M/TLP721F-GR	
IC104	17A07-031D	IC LINEAR 3P VOLTAGE REGULATOR 431	
• ! IC201	17A06-290C	IC LINEAR 7P DEFLECTIONLA7840	
● ! IC301	17A06-280B	IC LINEAR 30P DEFLECTION C1883 (ACT)	
IC302	17A11-040H	IC LINEAR O/P AMP LM3588P	
● 1C303	17A06-190G	IC LINEAR 8P DEFLECTIONUC3843B	
IC304	17A11-030H	IC LINEAR O/P AMP HA17393/2903 8P	
! IC501	16P40-029F	IC MICRO-PROCESSOR 40P 68P61 MASK ROM	
IC502	16M08-009R	IC EEPROM AT24C04 (B)-10PC (BLANK) 8P	
● IC503	16T14-023R	IC TTL 74LS74 14P	
IC601	17A04-160V	IC LINEAR 36P VIDEO M52737SP	
● IC603	16N20-004U	IC CONTROLLER 20P M35045-080SP	
● IC604	17A23-002H	IC LINEAR DIGITAL/ANALOG 62359P 18P	
● IC605	17A04-150K	IC LINEAR 11P VIDEO LM2405T	
		MISCELLANEOUS	in w
	20H17-23CB	CRT C26 NG M41KSX683X24(T)	
	11S31-069A	PCB MAIN-S 330*297*1.6MM 1769E	
	11S33-039A	PCB CRT-S 148*118*1.6MM1792SE	
	11S39-027A	PCB LED-S 1765D 24*16.5*1.6MM	
	11S3D-030A	PCB DISPLAY-S 172.5*27*1.6MM 1769E	· · · · · · · · · · · · · · · · · · ·
	54B11-8206	WIRE BRAID 82CM	1.55%
	54B15-1206	WIRE BRAID 12CM	
	54C23B1601	WIRE TERMINAL 1015#18 16L BK W/TUBE	
	56Q67-1803	POWER CORD IBMPC VDE 1M8-B 250V10A	
	64C30-0100	SOCKET CRT COLOR-H	
	65S10-2000	CABLE SIGNAL 15D-11H 3+6 200CM BLACK W/C	
	65W3131610	CONN H WIRE 1007#24 3P 2.5 16L-T	
	8200002000	CLAMP CABLE WC-6R	
	859001-401	TAPE STRETCH FLIM W=500MM 1500 M/RL	
	46G00-0085	COIL ROTATION (300T)	
	46G00-0130	COIL DEGAUSSING (106T)	
	19D0A-0010	DIODE LED BICOLOR W-DIFFUSED (L-119YGW)	
E905	23A11S010M	MF 5K23 1% 1/8W	
F101	49FB2-0A0A	FUSE SLOW 3.15A 250V (NORDIC)	
• FBT	7905716000	FBT CLIPS (HV-1)	
FD601	46R00-0010	CORE RF BEAD RHW 3.5*6*1.0 TP	
FD602	46R00-0010	CORE RF BEAD RHW 3.5*6*1.0 TP	
FD604	46R00-0010	CORE RF BEAD RHW 3.5*6*1.0 TP	
RL101	53R001-008M	RELAY COIL DC12V 5A/250V (2-A)	
•		I and the second	

Location	Part No.	Description
RL102	53R001-010	RELAY COIL DC5V 40NA/2A(2-C)
RP301	16K05-003Z	IC RES ARRAY 15K*4 5% 1/8W
RP302	16K05-003Z	IC RES ARRAY 15K*4 5% 1/8W
RP501	16K04-001Z	IC RES ARRAY 10K*3 5% 1/8W
RP502	16K09-004Z	IC RES ARRAY 3K3*8 5% 1/8W
RP503	16K06-001Z	IC RES ARRAY 3K3*5 5% 1/8W
RP504	16K08-001Z	IC RES ARRAY 10K*7 5% 1/8W
SG601	42S00-0201	SPARK GAP DSP-201M 200V20%
SG602	42S00-0201	SPARK GAP DSP-201M 200V20%
SG603	42800-0201	SPARK GAP DSP-201M 200V20%
SG604	42800-0301	SPARK GAP DSP-301N 300V30%
SW101	52P12-0030	SWITCH POWER 1P2T 5A250V
SW901	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW902	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW903	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW904	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW905	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW906	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW907	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
SW908	52P11-0050	SWITCH PRESS W/O LOCK H=9.5MM
IC501	64DB3-0010	SOCKET IC SIP .6IN 2.54DOUBLE LP 40P
IC502	64D11-0010	SOCKET IC SIP .3IN 2.54 DOUBLE LP 8P
D108*2	46R00-0220	CORE RF BRH 4.1*4*1.6
D117*2	46R00-0220	CORE RF BRH 4.1*4*1.6
TP1	65W10Y3610	CONN H WIRE 1015#18 1P(F) 36L
TP302	65W10Y4211	CONN H WIRE 1015#18 1P (M) 42L
XL501	60R01-0010	RESONATOR 8MHZ
A-A'	54N23B0700	WIRE LEAD 1015#18 7L BK
BD101	15D68-F000	DI BRIDGE 4A 800V
CRT YOKE	7906950200	CABLE CLIP (WIRE MOUNTS)
CRT/B S/C-BACK BKT	54B12-1006	WIRE BRAID 10CM
M/B	7906656200	CABLE CLIPS D=11.5 L=50MM (TA11-50)
NTC101	26B00-0061	NTCR 5R 15% 5A P=7.5MM
P101	64P20-1010	SOCKET POWER
P104-CRT/B P605	65W81327B0	CONN H/T WIRE 1007#24 8P 2.5 27L-T W/C
P501-CRT/B P604	65WB1334D0	CONN H/T WIRE 1007#24 12P 2.5 34L-T
P608-M/B P402	65W35223B1	CONN H/T WIRE 1015#22 3P 7.5/5 23L-T W/C
P901	65W51317D0	CONN H/T WIRE 1007#24 5P 2.5 17L-T
PTC101	26A00-0080	PTCR 9R 20% 2P
Q104-DRAIN	46R00-0230	CORE RF BRH 4*4*2
C131 '-' TO C137 '-'	54N23B0700	WIRE LEAD 1015#18 7L BK

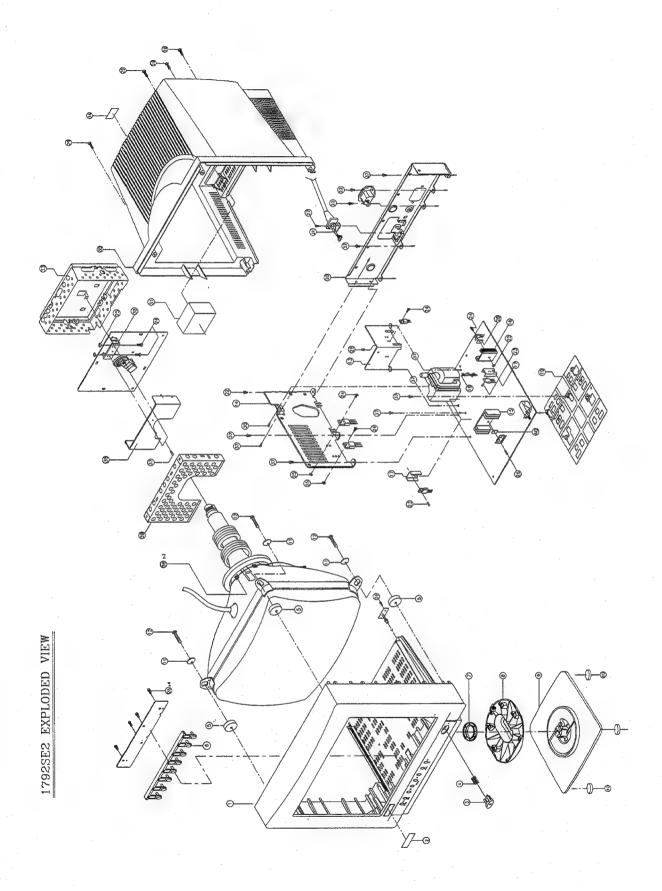


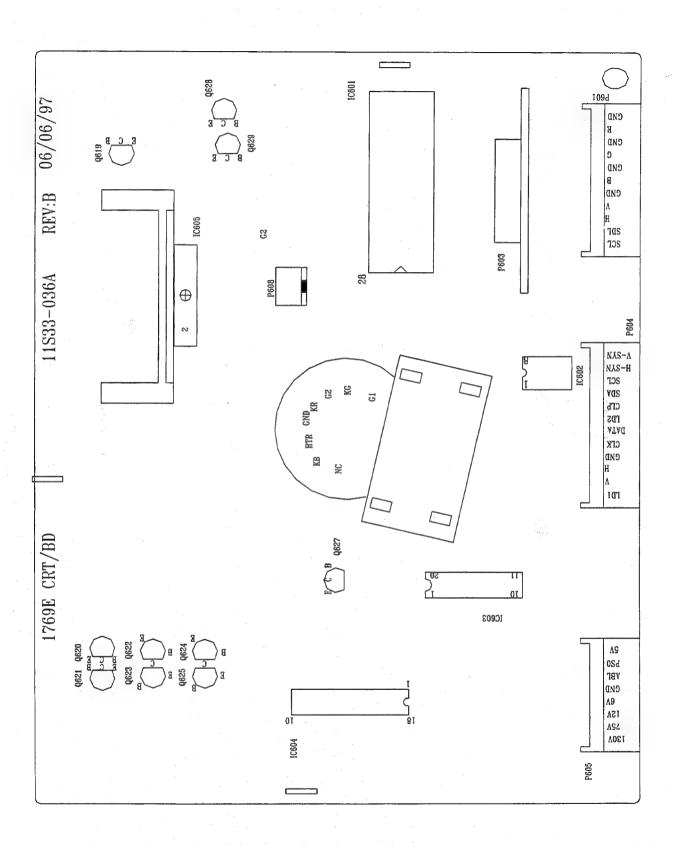
## 1769SE2 EXPLODED VIEW PARTS LIST

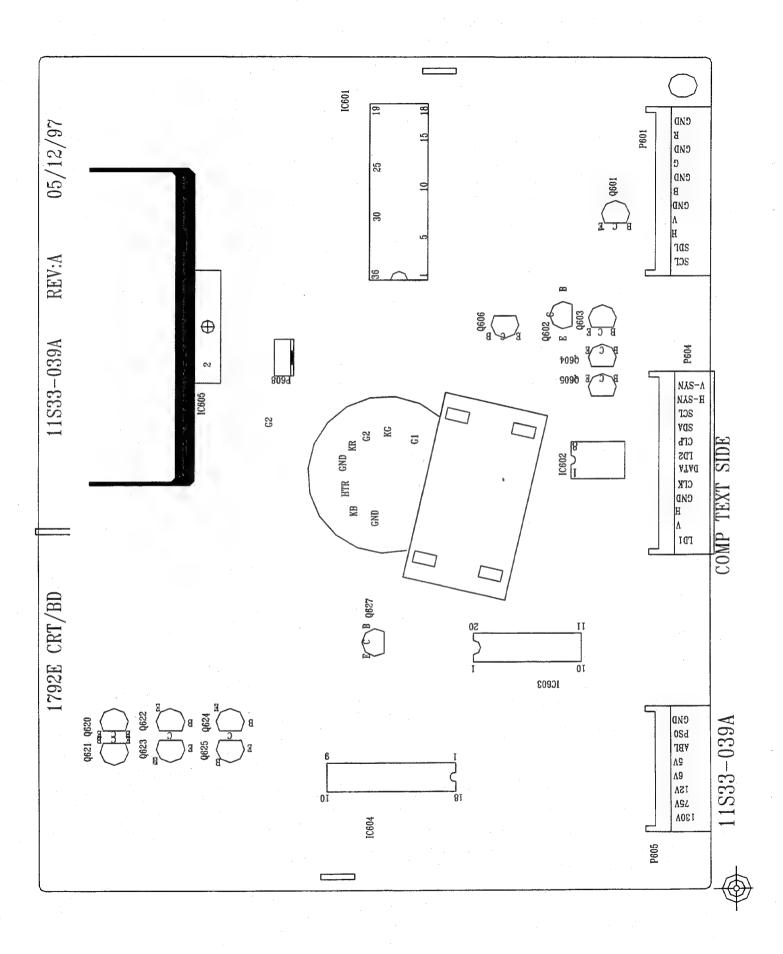
NO.	PARTS NUMBER	DESCRIPTION	Q'TY	NO.	PARTS NUMBER	DESCRIPTION
01	0820012000	FRONT PANEL	-	26	6724430080	TP SCREW (ø3x8
02	7140078400	NAME PLATE	-	27	6724F30080	TP SCREW (ø3x8
03	7110022000	POWER KNOB	-	28	7414567000	S.R.
04	7306147110	POWER SPRING	<del>-</del>	29	6776040160	PT SCREW (ø4x16
05	7416883320	RUBBER WASHER	4	30	7410029100	S.R. 26x24 m
90	7110023000	FUNCTION KEY KNOB	-	31	7425910120	CUSHION PLATE
07	0813611350	SWIVEL DISK	-	32	7513507510	HEAT SINK
08	08113543A0	SWIVEL BOWL	-	33	7502141600	SHIELD COVER
60	08313533A0	SWIVEL BASE	+	34		OVERLAY
10	7486236320	PU FOOT	4	35	08001470A0	BACK CABINET
<del></del>	7465576450	CRT WASHER	4	36	7906950200	WIRE MOUNTS
12	6776050220	CRT SCREW (PTø5x22)	4	37	6724A30080	TP SCREW (ø3x8)
13	7513478201	HEAT SINK	-	38	7500053200	SHIELD COVER (CRT-TO
14	7510030200	HEAT SINK (F.B.T.)	-			
15	7516636220	HEAT SINK	-			
16	7510036200	HEAT SINK	-			
17	7514415000	HEAT SINK	2			
100	7906656200	CABLE CLIPS	<b>—</b>			
19	7621361140	BOTTOM PLATE	-			
20	7621360040	BACK PLATE	<del></del>			-
21	7630004300	CABLE CLAME	~			
22	6724A30100	TP SCREW (ø3x10)	3			
23	6724426060	TP_SCREW (#2.6x6)	2			
24	6720430080	MACHINEL SCREW (M3x8)	2			
25	6740030240	NUT M3 (2.4t)	5			

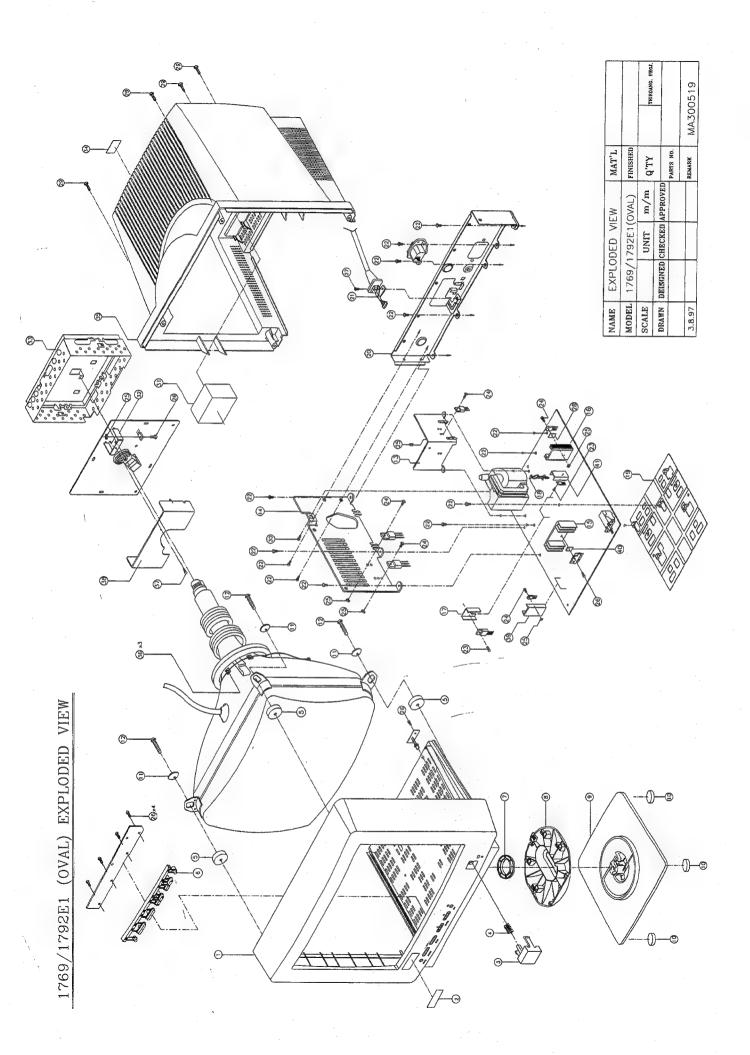
## 1792SE2 EXPLODED VIEW PARTS LIST

0820012000         FRONT PANEL         1         26         67           7140078400         NAME PLATE         1         26         67           7140078400         NAME PLATE         1         27         67           7140078400         NAME PLATE         1         28         74           7110022000         POWER KNOB         1         29         67           7416883320         RUBBER WASHER         4         30         67           7416883320         FUNCTION KEY KNOB         1         32         75           0813611350         SWIVEL DISK         1         32         75           08135333A0         SWIVEL BASE         4         35         75           08313533A0         SWIVEL BASE         4         36         75           7486236320         PU FOOT         4         37         67           7510030200         HEAT SINK         1         37         75           7510012200         HEAT SINK         1         40         74           75104415000         HEAT SINK         1         7621361140         BACK PLATE         1           7621360040         BACK PLATE         1         7630004300	DARTS NIMBER	DESCRIPTION	O'TV
FRONT PANEL   1   26     NAME PLATE   1   27     POWER KNOB   1   29     POWER SPRING   1   30     RUBBER WASHER   4   30     RUBBER WASHER   1   33     SWIVEL BOWL   1   33     SWIVEL BOWL   1   35     SWIVEL BOWL   1   35     CRT SCREW (P165x22)   4   37     PU FOOT   4   36     CRT SCREW (P165x22)   4   37     HEAT SINK   1   40     HEAT SINK   3   40     HEAT SINK   3   40     HEAT SINK   40   30     TP SCREW (#3x10)   3     TP SCREW (#3x8)   6	WITTEN CANADA	MONTH TOTAL	4 1 4
NAME PLATE	6724430080	TP SCREW (ø3x8)	9
POWER KNOB	6724F30080	TP SCREW (ø3x8)	-
POWER SPRING	7414567000	S.R.	-
FUNCTION KEY KNOB   1   31   32   32   33   34   35   34   35   34   35   34   35   35	6776040160	PT SCREW (ø4×16)	4
FUNCTION KEY KNOB   1   31   32   32   33   34   35   35   35   35   35   35	6722240120	TP SCREW (ø4x12)	<del></del>
SWIVEL DISK 1 33  SWIVEL BOWL 1 34  SWIVEL BASE 1 34  PU FOOT 4 36  CRT WASHER 4 36  CRT SCREW (PP65x22) 4 37  HEAT SINK 1 38  HEAT SINK 1 1 38  HEAT SINK 1 1 40  HEAT SINK 2 1 1 39  HEAT SINK 1 1 40  HEAT SINK 2 1 1 39  HEAT SINK 3 1 1 40  HEAT SINK 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7425910120	CUSHION PLATE	-
SWIVEL BOWL       1         SWIVEL BASE       1         PU FOOT       4         CRT WASHER       4         CRT SCREW (PTØ5x22)       4         TEAT SINK       1         HEAT SINK       1         BOTTOM PLATE       1         BACK PLATE       1         CABLE CLAME       1         TP SCREW (Ø3x10)       3         TP SCREW (Ø3x10)       3         TP SCREW (Ø3x10)       3         TP SCREW (Ø3x10)       3	7510041200	HEAT SINK	<b></b>
SWIVEL BASE	7502141600	SHIELD COVER	***
CRT WASHER         4         35           CRT SCREW (PP65x22)         4         37           HEAT SINK         1         39           HEAT SINK         1         40           BACK PLATE         1         6           BOTTOM PLATE         1         6           CABLE CLIPS         1         6           CABLE CLAME         1         7           TP SCREW (#3x10)         3         7           TP SCREW (#3x8)         6         7		OVERLAY	-
CRT WASHER         4         36           CRT SCREW (P105x22)         4         37           HEAT SINK         1         39           HEAT SINK         1         40           HEAT SINK         1         40           HEAT SINK         1         40           HEAT SINK         1         6           HEAT SINK         1         6           CABLE CLIPS         1         6           BOTTOM PLATE         1         6           CABLE CLAME         1         6           TP SCREW (03x10)         3         7           MACHINEL SCREW (03x10)         3         7	08001470A0	BACK CABINET	-
CRT SCREW (PTØ5x22)         4           HEAT SINK         1           HEAT SINK         1           HEAT SINK         1           HEAT SINK         3           CABLE CLIPS         1           BOTTOM PLATE         1           BACK PLATE         1           CABLE CLAME         1           BACK PLATE         1           TP SCREW (Ø3x10)         3           TP SCREW (Ø3x10)         3           TP SCREW (Ø3x8)         6	7906950200	WIRE MOUNTS	2
HEAT SINK       1       38         HEAT SINK       1       40         HEAT SINK       1       40         HEAT SINK       1       40         HEAT SINK       1       6         HEAT SINK       1       1         BOTTOM       1       1         BOTTOM       1       1         BACK PLATE       1       1         CABLE CLAME       1       1         TP SCREW       (#3x10)       3         TP SCREW       (#26x6)       3         MACHINEL SCREW       (#3x88)       6	6724A30080	TP SCREW (ø3x8)	-
HEAT SINK       (F.B.T.)       1       40         HEAT SINK       1       40         HEAT SINK       3       3         CABLE CLIPS       1       1         BOTTOM PLATE       1       1         BACK PLATE       1       1         CABLE CLAME       1       1         TP SCREW (\$\pi_3x_10)\$       3       1         TP SCREW (\$\pi_3x_10)\$       3       1         MACHINEL SCREW (\$\pi_3x_8\$)       6       1	7500053200	SHIELD COVER (CRT-TOP)	_
HEAT SINK       1         HEAT SINK       3         CABLE CLIPS       1         BOTTOM PLATE       1         BACK PLATE       1         CABLE CLAME       1         TP SCREW (φ3x10)       3         TP SCREW (φ2.6x6)       3         MACHINEL SCREW (M3x8)       6	7500019000	SHIELD COVER	_
HEAT SINK HEAT SINK CABLE CLIPS BOTTOM PLATE BACK PLATE CABLE CLAME TP SCREW (\$\pi_{3,x}10\$) TP SCREW (\$\pi_{2,6x}6\$) MACHINEL SCREW (\$\pi_{3,x}8\$)	7410029100	S.R. 26x24 mm	1
HEAT SINK CABLE CLIPS BOTTOM PLATE BACK PLATE CABLE CLAME TP SCREW (\$2.6x6) TP SCREW (\$2.6x6)			
CABLE CLIPS  BOTTOM PLATE  BACK PLATE  CABLE CLAME  TP SCREW (\$2.6x6)  TP SCREW (\$2.6x6)			
BOTTOM PLATE  BACK PLATE  CABLE CLAME  TP SCREW (\$\pi 3.x10\$)  TP SCREW (\$\pi 2.6x6\$)  MACHINEL SCREW (M3.x8)			
BACK PLATE  CABLE CLAME  TP SCREW (\$2.6x6)  TP SCREW (\$2.6x6)  MACHINEL SCREW (M3x8)		-	
CABLE CLAME TP SCREW (ø3x10) TP SCREW (ø2.6x6) MACHINEL SCREW (M3x8)			
TP SCREW (ø3×10) TP SCREW (ø2.6×6) MACHINEL SCREW (M3×8)			
TP SCREW (\$2.6x6) MACHINEL SCREW (M3x8)			
MACHINEL SCREW (M3x8)			
6740030240 NUT M3 (2.4t) 6			





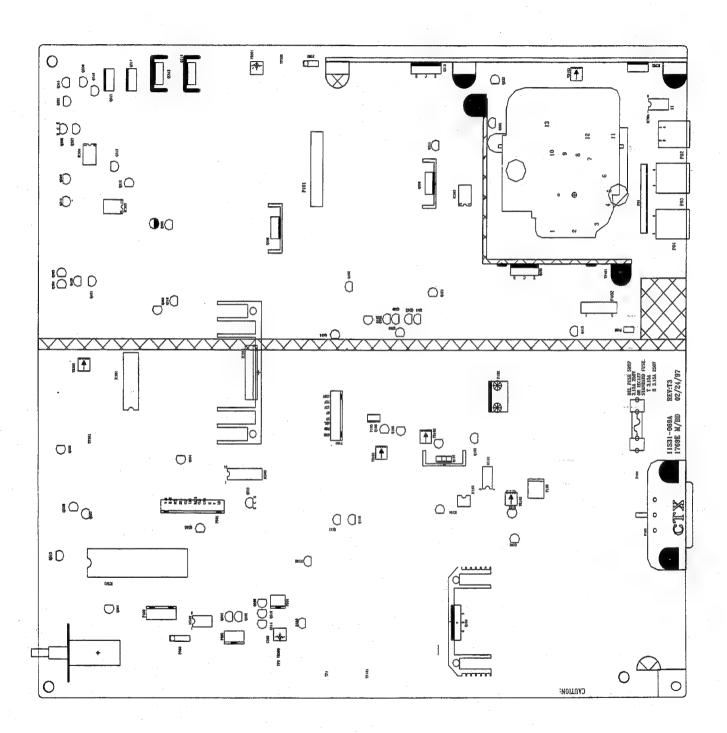


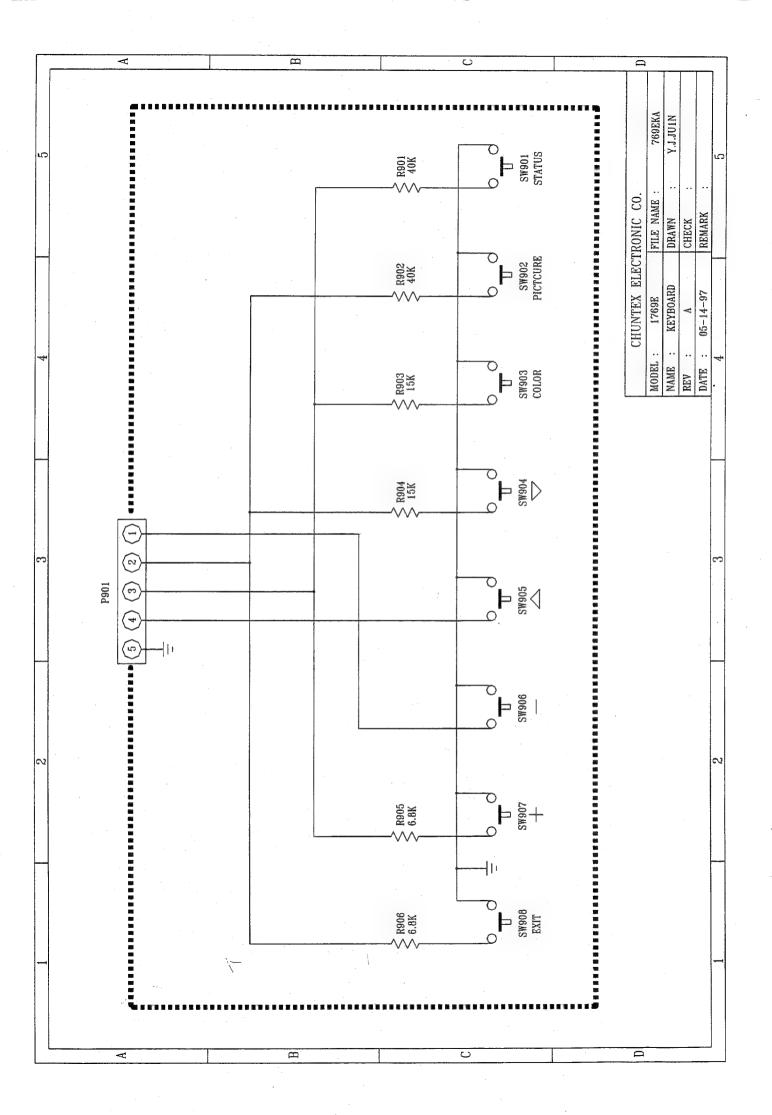


# 1769/1792E1 (OVAL) EXPLODED VIEW PARTS LIST

Q'TY

Z	(ø3x8)	(ø3×8)		(ø4×16)	(ø4×12)	ÍП							RT-TOP)		26x24 mm										
DESCRIPTION	TP SCREW	TP SCREW	S.R.	PT SCREW (	TP SCREW (	CUSHION PLATE	HEAT SINK	SHIELD COVER	OVERLAY	BACK CABINET	WIR MOUNTS	SCREW	SHIELD COVER (CRT-TOP)	HEAT SINK	S.R. 26	HEAT SINK									
PARTS NUMBER	6724430080	6724F30080	7414567000	6776040160	6722240120	7425910120	7513507510	7502141600	7140239600	08001470A0	7906950200	6724A30080	7500053200	7.516045200	7410029100	7516673650									
NO.	26	27	28	29	30	31	32	33	34	32	36	37	38	39	40	41									
· ·			•																						
Q'TY	-	-	-	_	4	-	-	_	1	4	4	4	1	1	1	_	2	1	1	1	1	13	3	5	9
DESCRIPTION	FRONT PANEL	NAME PLATE	POWER KNOB	POWER SPRING	RUBBER WASHER	FUNCTION KEY KNOB	SWIVEL DISK	SWIVEL BOWL	SWIVEL BASE	PU FOOT	CRT WASHER	CRT SCREW (PTø5x22)	HEAT SINK	HEAT SINK (F.B.T.)	HEAT SINK	HEAT SINK	HEAT SINK	CABLE CLIPS	BOTTOM PLATE	BACK PLATE	CABLE CLAME	TP SCREW (ø3x10)	TP SCREW (#2.6x6)	MACHINEL SCREW (M3x8)	NUT M3 (2.4t)
JMBER	00	00	A0	10	320	000	350	13A0	33A0	3320	3450	0220	8201	0200	6220	6200	0099	0079	51140	30040	04300	0100	0909	08009	0240
PARTS NUMBER	0820023000	7140078400	71137760A0	7306147110	7416883320	7110037000	0813611350	08113543A0	08313533A0	7486236320	7465576450	6776050220	7513478201	7510030200	7516636220	7510036200	7510006600	7906656200	7621361140	7621360040	7630004300	6724A30100	6724426060	6720430080	6740030240





10.0 LAYOUT FOR MAIN COMPONENTS AND ADJUSTED

11.0 CIRCUIT DIAGRAM

12.0 EXPLOLED VIEW

## M E M O

	······
	·····
	***************************************
	••••••
	······································
<u></u>	
<u> </u>	

OWNER:

